PH1200A280

EVALUATION DATA

型式データ

INDEX

使用記号 Terminology used

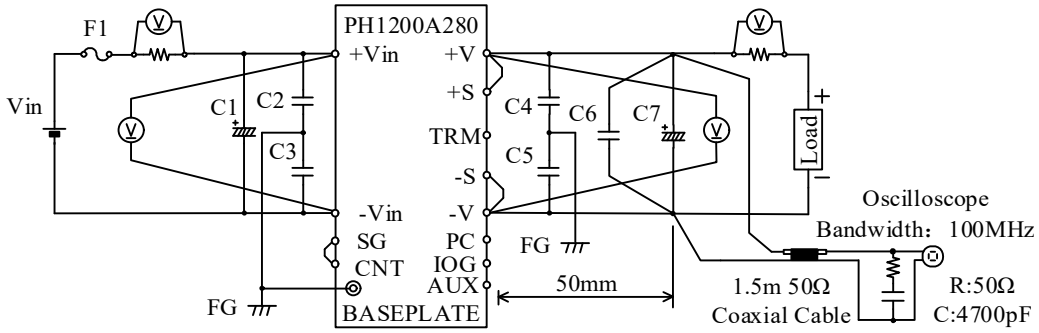
	Definition		
Vin	·····	入力電圧	Input voltage
Vo	·····	出力電圧	Output voltage
Vcnt	·····	CNT電圧	CNT voltage
Iin	·····	入力電流	Input current
Io	·····	出力電流	Output current
Tbp	·····	ベースプレート温度	Base-plate temperature
Ta	·····	周囲温度	Ambient temperature
f	·····	周波数	Frequency

※ 当社測定条件における結果であり、参考値としてお考え願います。
Test results are reference data based on our measurement condition.

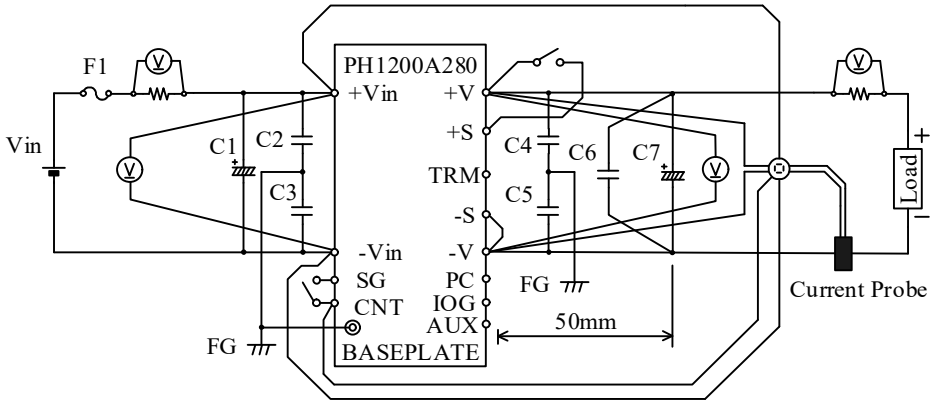
1. 評価方法　Evaluation Method

1.1 測定回路　Measurement Circuits

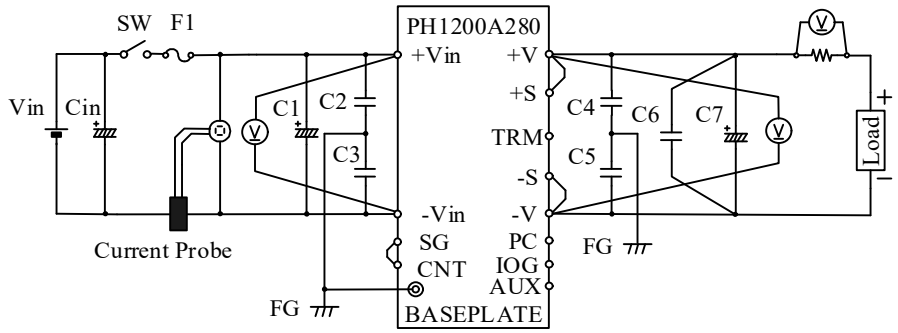
(1) 静特性、過電流保護特性、出力リップル・ノイズ波形
Steady state characteristics, Over current protection (OCP) characteristics, and Output ripple and noise waveform



(2) 過渡応答、過電圧保護特性、その他
Dynamic response, Over voltage protection (OVP) characteristics and Other characteristics



(3) 入力サージ電流（突入電流）特性
Inrush current characteristics

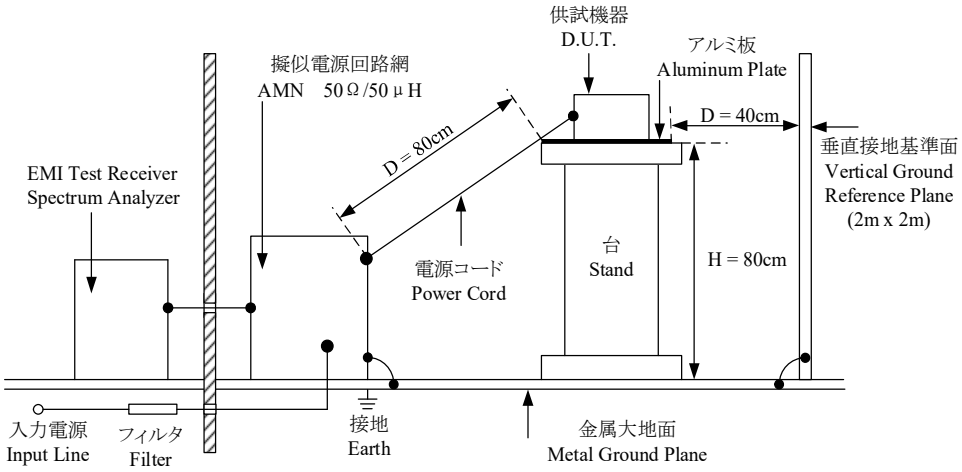


F1 : 500VDC, 10A (WN30-10)
C1 : 22μF Electrolytic Capacitor
C2,C3 : 4,700pF Ceramic Capacitor
C4,C5 : 0.022μF Film Capacitor
C6 : 2.2μF Ceramic Capacitor
Cin : 10,000μF Electrolytic Capacitor

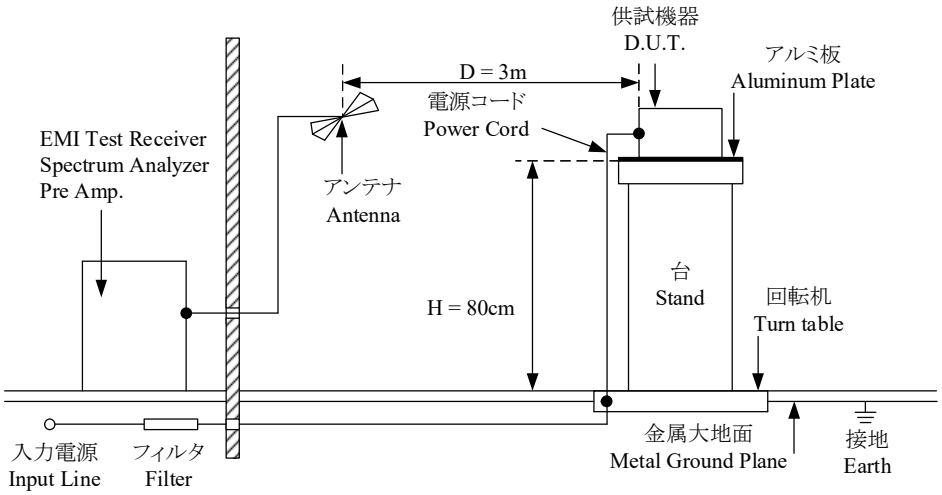
C7 12V: 1,500μF×2 Parallel Electrolytic Capacitor
24V: 1,500μF Electrolytic Capacitor
28V: 1,500μF Electrolytic Capacitor
36V: 560μF×2 Parallel Electrolytic Capacitor
48V: 1,500μF×2 Series Electrolytic Capacitor

(4) EMI特性 Electro-Magnetic Interference characteristics

(a) 雑音端子電圧（帰還ノイズ）Conducted Emission Noise

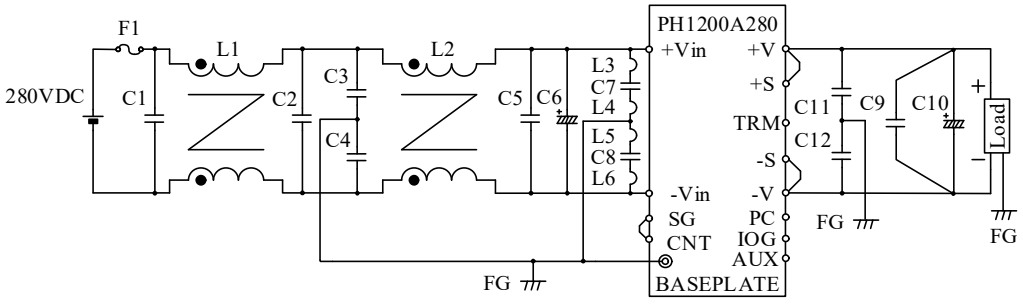


(b) 雑音電界強度(輻射ノイズ) Radiated Emission Noise



*入出力ケーブルとしてシールドケーブルを使用
Shielded cable used to input and output cable.

VCCI class A対応アプリケーションシステム
VCCI class A application system



F1 : 500VDC, 10A (WN30-10)
C1,C2,C5 : 0.68μF Film Capacitor
C3,C4,C7,C8 : 2,200pF Ceramic Capacitor
C6 : 22μF Electrolytic Capacitor
C9 : 2.2μF Ceramic Capacitor
L1 : 5.0mH
L2 : 3.8mH
C10 : 12V-1,500μF×2 Parallel Electrolytic Capacitor
: 24V-1,500μF Electrolytic Capacitor
: 28V-1,500μF Electrolytic Capacitor
: 36V-560μF×2 Parallel Electrolytic Capacitor
: 48V-1,500μF×2 Series Electrolytic Capacitor
C11,C12 : 0.022μF Film Capacitor
L3,L4,L5,L6 : Bead Core (HF57BB3.35X2X2)

*詳細なパラメータ情報については、次ページをご参照ください。
Refer to the next page for detailed parameter information.

*詳細な周辺パラメータ情報(参照用)

The detailed peripheral parameter information (for reference)

	SYMBOL		PRODUCT TYPE	ITEM DESCRIPTION	NOTE	MANUFACTURER
1	F1		Fuse	WN30-10	500VDC, 10A	Walter
2	C1,C2,C5		Cap., Film	ECQU2A684ML	275V, 0.68μ	Panasonic
3	C3,C4,C7,C8		Cap.,Ceramic(AC)	DE1E3KX222MJ4BN04F	250V, 2,200p	MURATA
4	C6		Cap., Elect	UCS2W220MHD	450V, 22μ	NICHICON
5	C9		MLCC	C3225X7R2A225KT	100V, 2.2μ	TDK
6	C10	12V Model	Cap., Elect ×2 Parallel	ELXY250ELL152MK30S	25V, 1,500μ	NI-CHEMI
7		24V Model	Cap., Elect	ELXY500ELL152ML40S	50V, 1,500μ	NI-CHEMI
8		28V Model	Cap., Elect	ELXY500ELL152ML40S	50V, 1,500μ	NI-CHEMI
9		36V Model	Cap., Elect ×2 Parallel	ELXY630ELL561MK40S	63V, 560μ	NI-CHEMI
10		48V Model	Cap., Elect ×2 Series	ELXY500ELL152ML40S	50V, 1,500μ	NI-CHEMI
11	C11,C12		Cap., Film	MMCF0630K22300000100	630V, 0.022μ	NISSEI
12	L1		Noise Filter Coil	CV5A0050SBS	5.0mH, 10A	TNC
13	L2		Noise Filter Coil	CV5A1038SBS	3.8mH, 11A	TNC
14	L3,L4,L5,L6		Bead Core	HF57BB3.35X2X2		TDK

1.2 使用測定機器　List of equipment used

	EQUIPMENT USED	MANUFACTURER	MODEL NO.
1	AMN	SCHWARZBECK	NNLK8121
2	ANTENNA(BI-LOG ANTENNA)	TESEQ	CBL6111D
3	CONTROLLED TEMP. CHAMBER	ESPEC CORP.	SU-662
4	CURRENT PROBE	YOKOGAWA ELECT.	701930
5	CURRENT PROBE AMPLIFIER	YOKOGAWA ELECT.	700938
6	CVCF	KIKUSUI	PCR2000L
7	DC POWER SUPPLY	TDK-Lambda	GEN600-8.5
8	DIGITAL MULTIMETER	Agilent	34970A
9	DIGITAL POWER METER	YOKOGAWA ELECT.	WT210
10	DIGITAL STORAGE OSCILLOSCOPE	YOKOGAWA ELECT.	DLM2054
11	DYNAMIC DUMMY LOAD	Chroma	63203A
12	EMI TEST RECEIVER SPECTRUM ANALYZER	ROHDE & SCHWARZ	ESCI
13	PRE AMP.	SONOMA	310N
14	SHUNT RESISTER	YOKOGAWA ELECT.	2215

2. 特性データ Characteristics

2.1 静特性 Steady state data
(1) 入力変動、負荷変動、温度変動 Line regulation, Load regulation, Temperature drift

12V

1. Line regulation and Load regulation　　Condition　Tbp : 25℃

Io \ Vin	200VDC	210VDC	280VDC	425VDC	Line regulation	
0%	12.020V	12.020V	12.020V	12.020V	1mV	0.004%
50%	12.031V	12.030V	12.030V	12.030V	1mV	0.004%
100%	12.037V	12.041V	12.041V	12.041V	4mV	0.030%
Load	17mV	21mV	21mV	21mV		
regulation	0.142%	0.173%	0.173%	0.172%		

2. Temperature drift　　Conditions　Vin : 280VDC
Io : 100%

Tbp	-40℃	+25℃	+100℃	Temperature stability	
Vo	12.039V	12.041V	11.956V	84mV	0.703%

24V

1. Line regulation and Load regulation　　Condition　Tbp : 25℃

Io \ Vin	200VDC	210VDC	280VDC	425VDC	Line regulation	
0%	23.971V	23.971V	23.970V	23.971V	1mV	0.002%
50%	23.977V	23.977V	23.977V	23.977V	1mV	0.002%
100%	23.982V	23.983V	23.983V	23.984V	2mV	0.009%
Load	11mV	12mV	13mV	13mV		
regulation	0.046%	0.052%	0.055%	0.055%		

2. Temperature drift　　Conditions　Vin : 280VDC
Io : 100%

Tbp	-40℃	+25℃	+100℃	Temperature stability	
Vo	24.004V	23.983V	23.888V	115mV	0.480%

28V

1. Line regulation and Load regulation　　Condition　Tbp : 25℃

Io \ Vin	200VDC	210VDC	280VDC	425VDC	Line regulation	
0%	28.028V	28.028V	28.027V	28.027V	1mV	0.005%
50%	28.031V	28.031V	28.031V	28.031V	1mV	0.005%
100%	28.034V	28.036V	28.035V	28.036V	2mV	0.005%
Load	6mV	8mV	8mV	8mV		
regulation	0.021%	0.030%	0.030%	0.030%		

2. Temperature drift　　Conditions　Vin : 280VDC
Io : 100%

Tbp	-40℃	+25℃	+100℃	Temperature stability	
Vo	28.063V	28.035V	27.904V	159mV	0.568%

(1) 入力変動、負荷変動、温度変動 Line regulation, Load regulation, Temperature drift

36V

1. Line regulation and Load regulation　　Condition　Tbp : 25℃

Io \ Vin	200VDC	210VDC	280VDC	425VDC	Line regulation	
0%	36.078V	36.078V	36.077V	36.077V	1mV	0.002%
50%	36.082V	36.082V	36.082V	36.083V	1mV	0.002%
100%	36.085V	36.087V	36.087V	36.087V	2mV	0.006%
Load	8mV	9mV	10mV	10mV		
regulation	0.021%	0.026%	0.028%	0.028%		

2. Temperature drift　　Conditions　Vin : 280VDC
Io : 100%

Tbp	-40℃	+25℃	+100℃	Temperature stability	
Vo	36.069V	36.087V	35.933V	154mV	0.429%

48V

1. Line regulation and Load regulation　　Condition　Tbp : 25℃

Io \ Vin	200VDC	210VDC	280VDC	425VDC	Line regulation	
0%	48.125V	48.126V	48.124V	48.124V	2mV	0.004%
50%	48.128V	48.129V	48.129V	48.129V	1mV	0.002%
100%	48.130V	48.134V	48.133V	48.133V	3mV	0.007%
Load	5mV	8mV	9mV	9mV		
regulation	0.010%	0.016%	0.018%	0.018%		

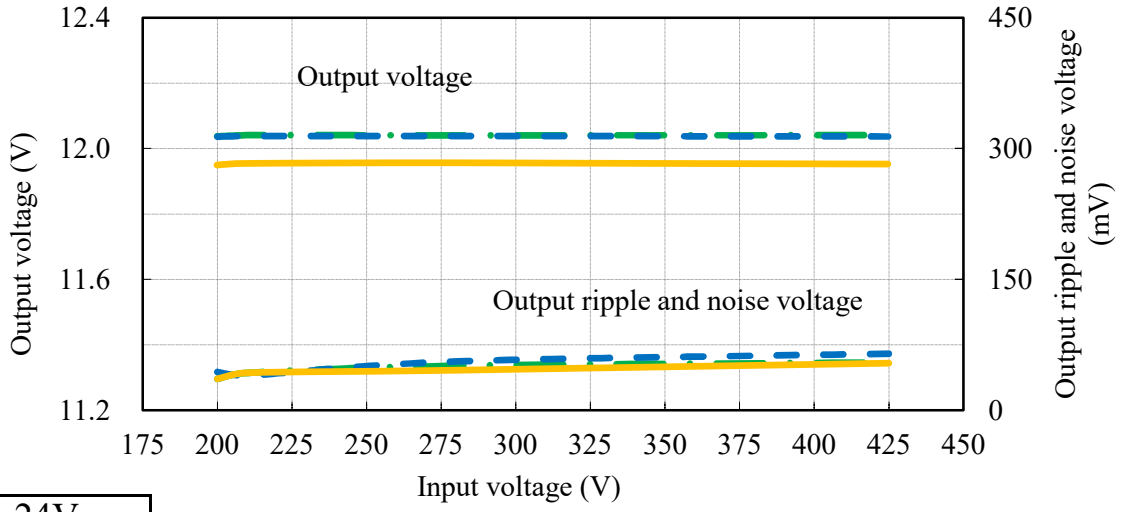
2. Temperature drift　　Conditions　Vin : 280VDC
Io : 100%

Tbp	-40℃	+25℃	+100℃	Temperature stability	
Vo	48.115V	48.133V	47.915V	218mV	0.455%

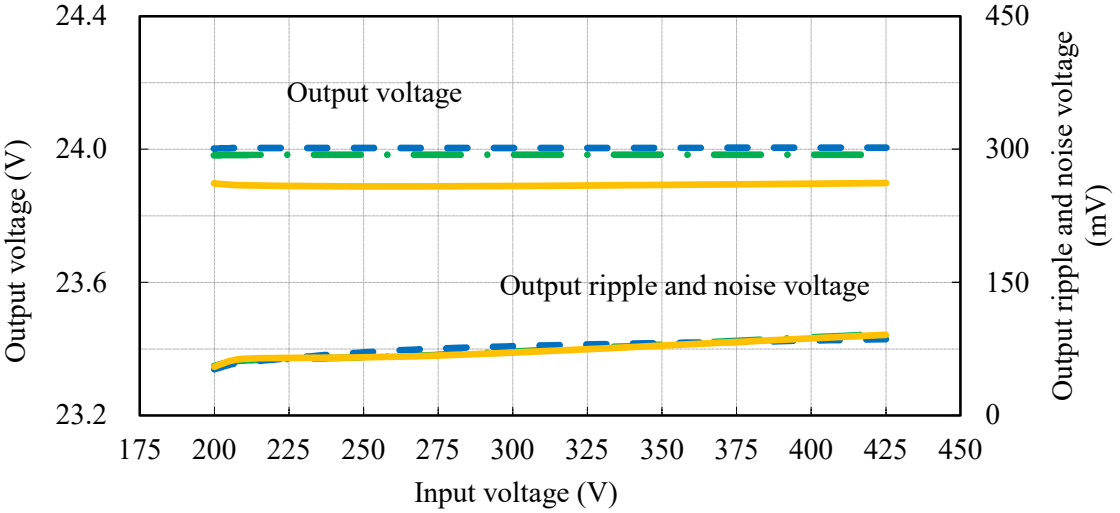
(2) 出力電圧、出力リップル・ノイズ電圧 対 入力電圧
Output voltage and Output ripple and noise voltage vs. Input voltage

Conditions Io : 100 %
Tbp : -40 °C
: 25 °C
: 100 °C

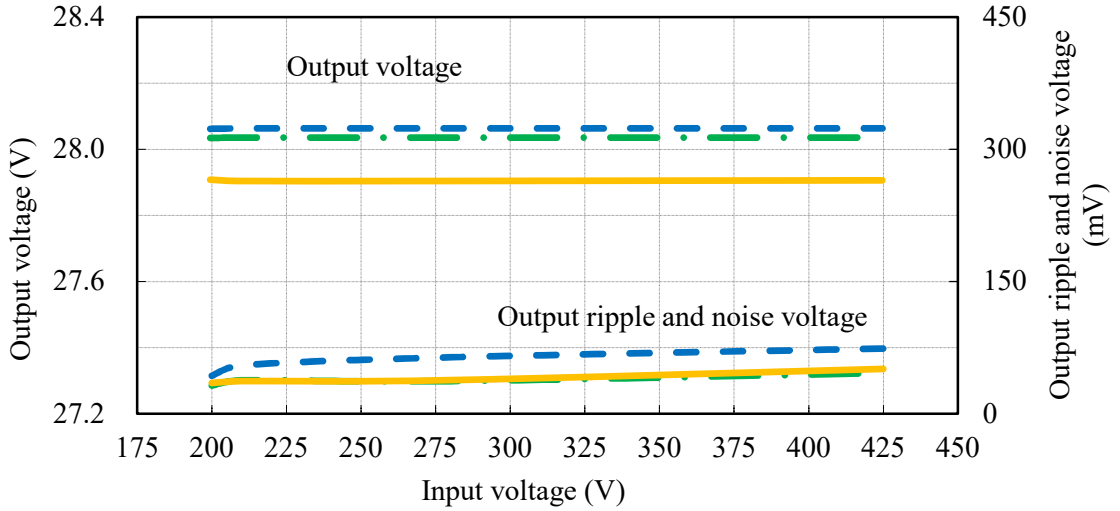
12V



24V



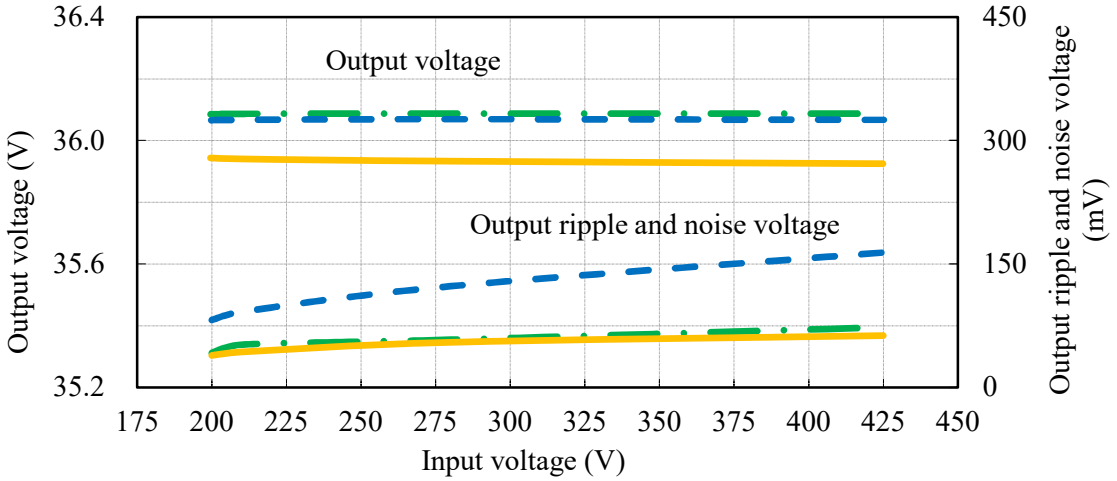
28V



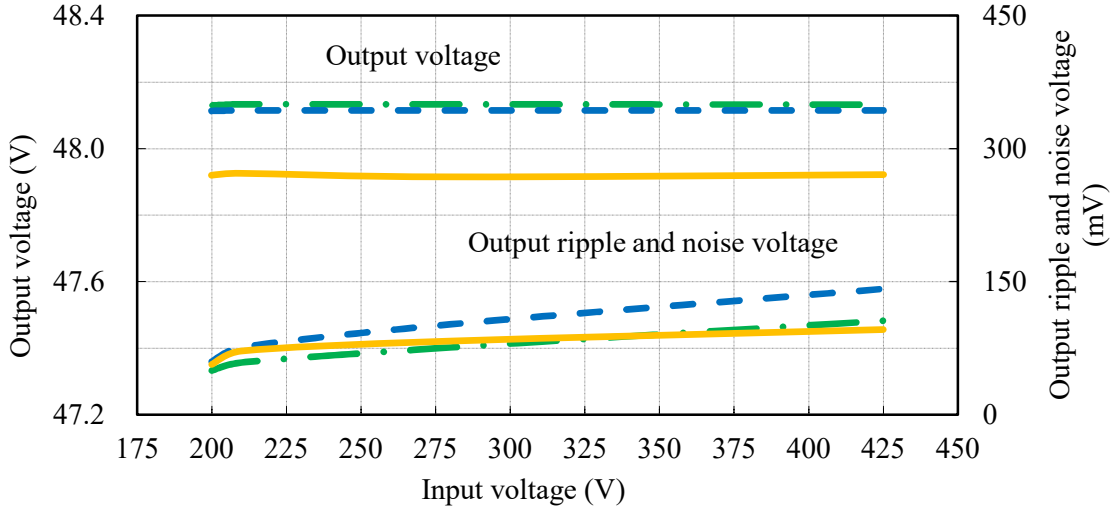
(2) 出力電圧、出力リップル・ノイズ電圧 対 入力電圧
Output voltage and Output ripple and noise voltage vs. Input voltage

Conditions Io : 100 %
Tbp : -40 °C
: 25 °C
: 100 °C

36V



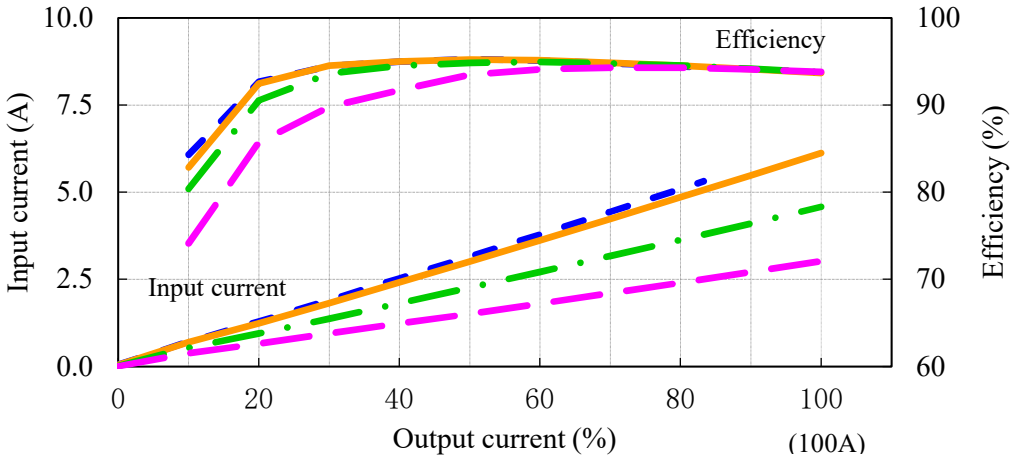
48V



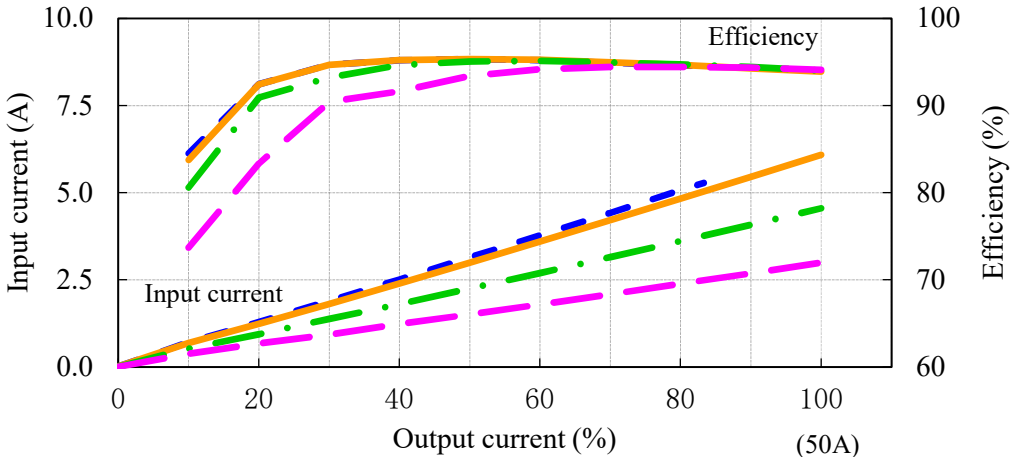
(3) 入力電流、効率 対 出力電流
Input current and Efficiency vs. Output current

Conditions Vin : 200 VDC
: 210 VDC
: 280 VDC
: 425 VDC
Tbp : 25 °C

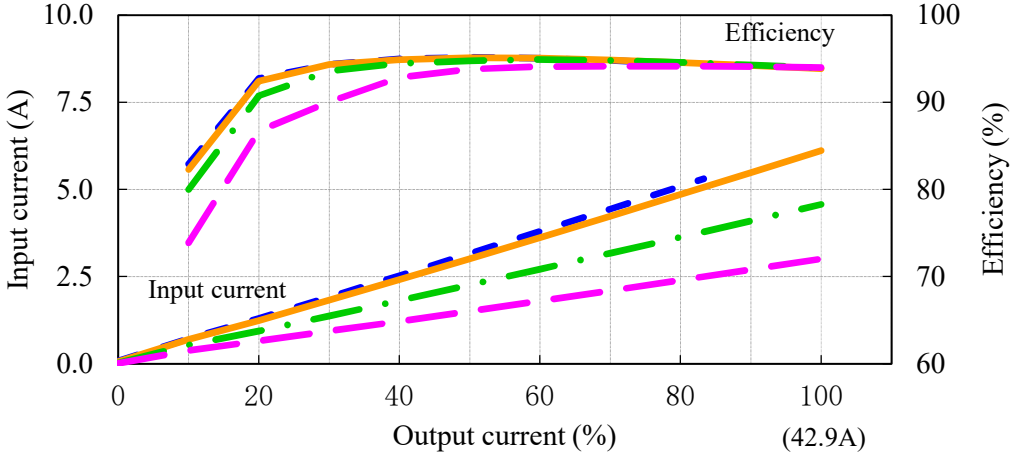
12V



24V



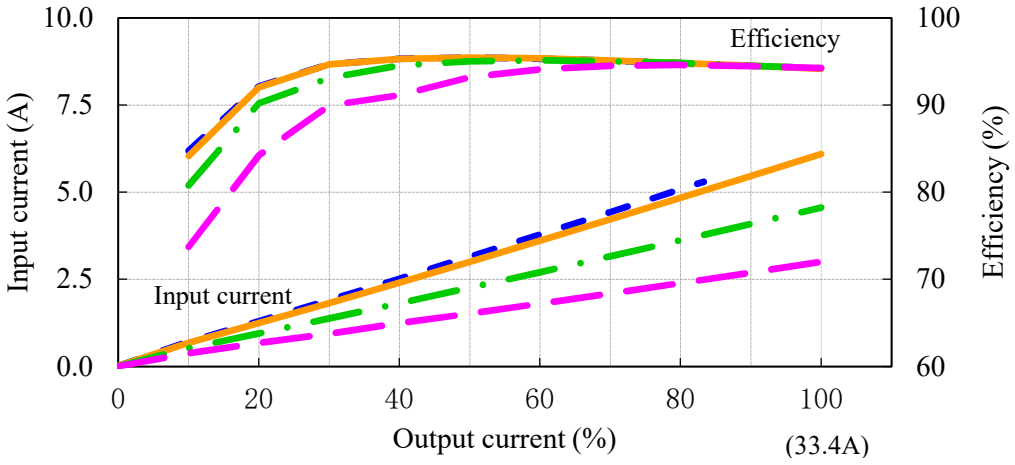
28V



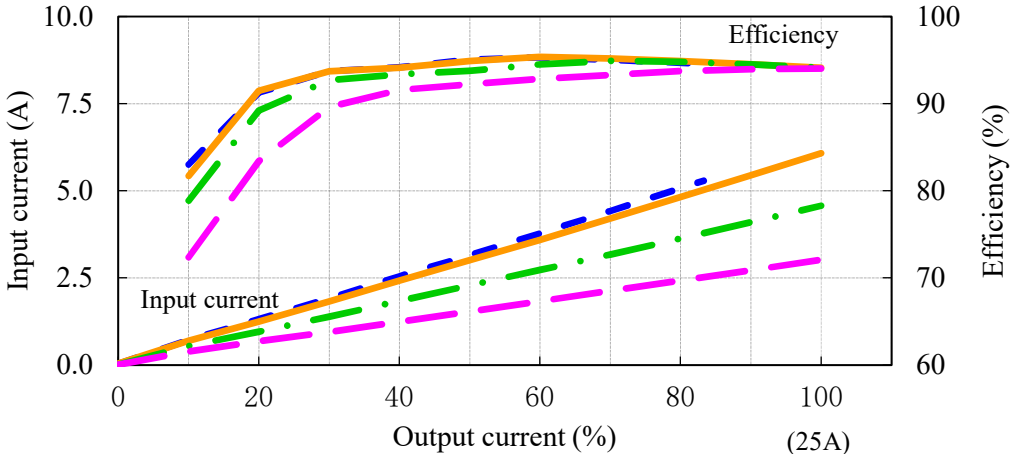
(3) 入力電流、効率 対 出力電流
Input current and Efficiency vs. Output current

Conditions Vin : 200 VDC
: 210 VDC
: 280 VDC
: 425 VDC
Tbp : 25 °C

36V



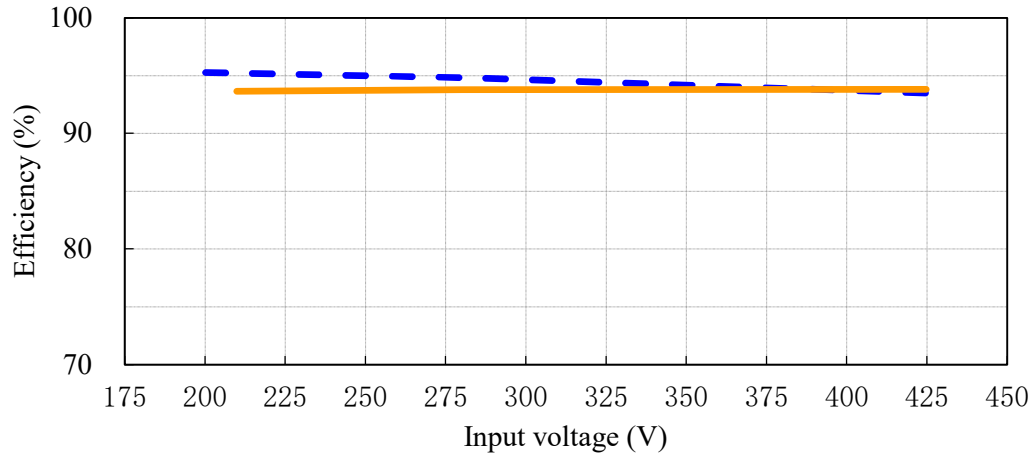
48V



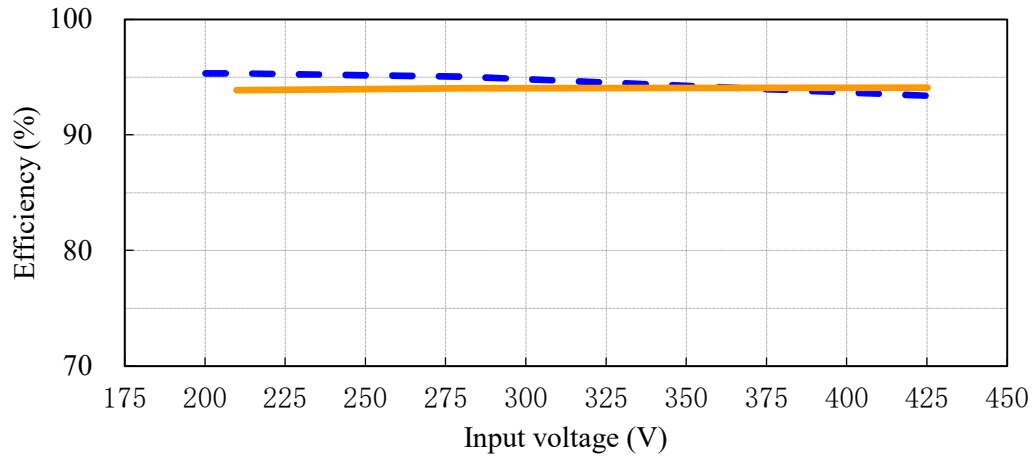
(4) 効率 対 入力電圧
Efficiency vs. Input voltage

Conditions Io : 50 % ----
: 100 % ——
Tbp : 25 °C

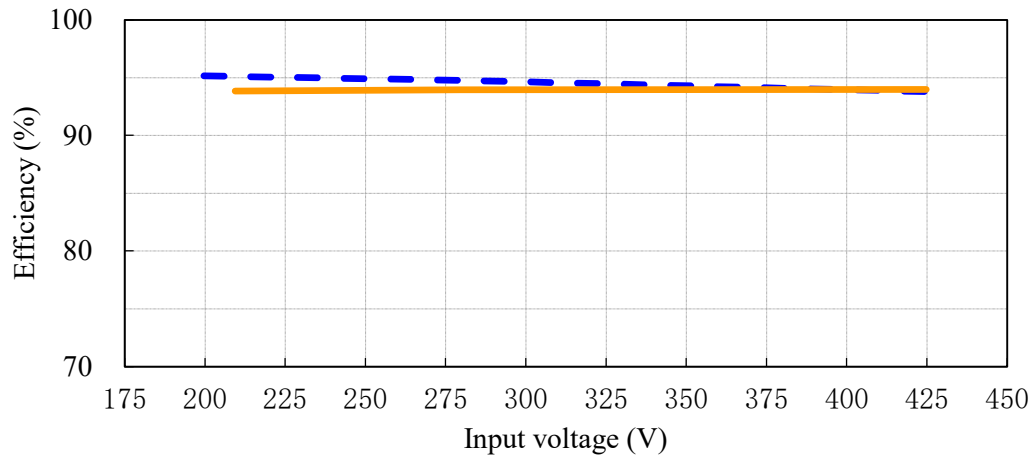
12V



24V



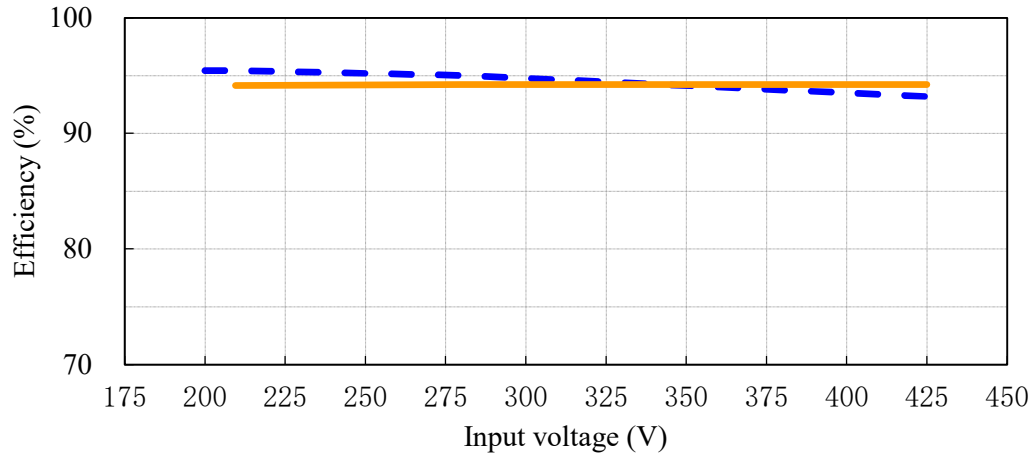
28V



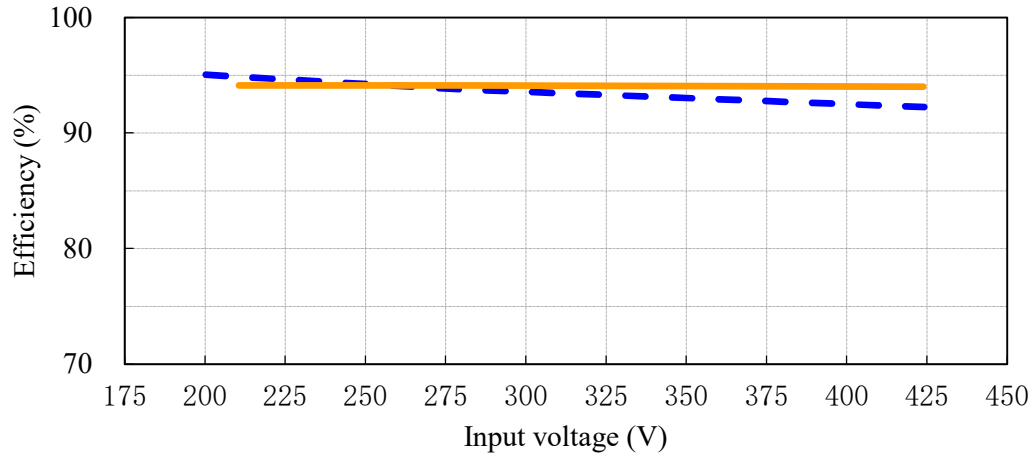
(4) 効率 対 入力電圧
Efficiency vs. Input voltage

Conditions Io : 50 % - - - - -
: 100 % ——
Tbp : 25 °C

36V



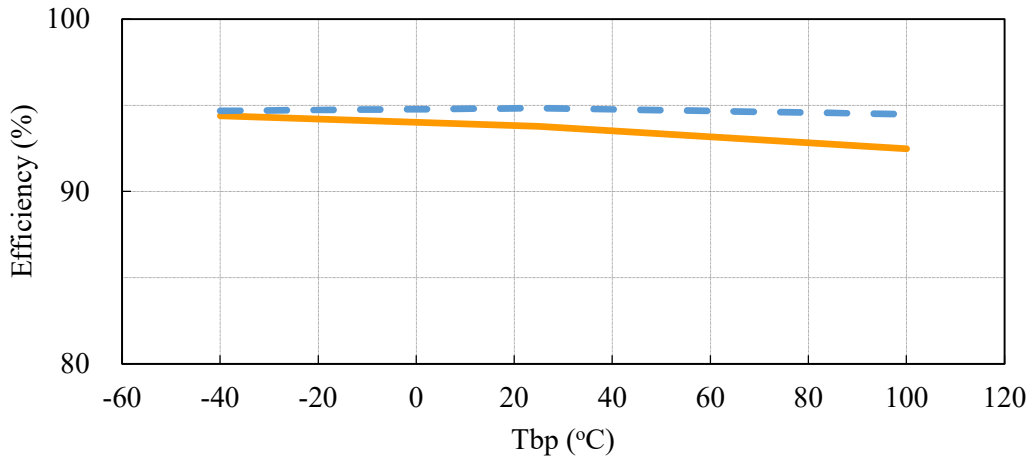
48V



(5) 効率 対 ベースプレート温度
Efficiency vs. Baseplate temperature

Conditions Vin : 280 VDC
Io : 50 %
: 100 %

12V



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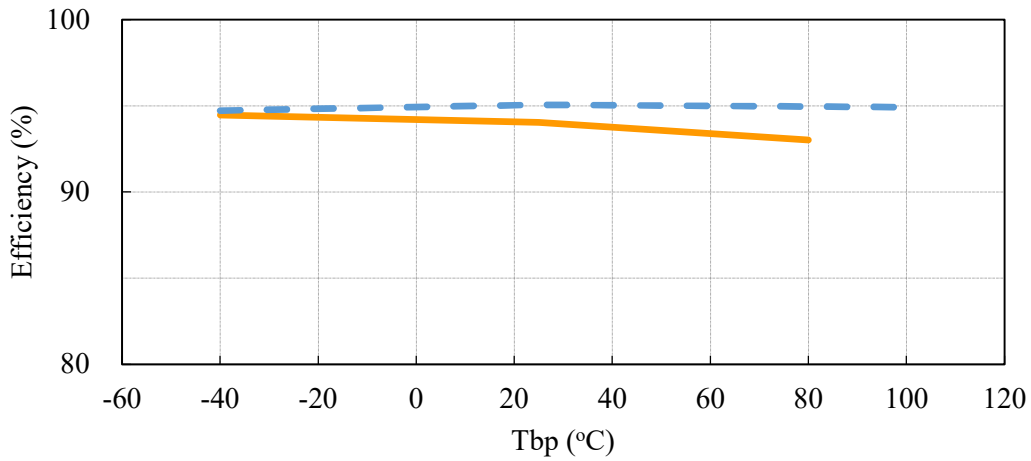
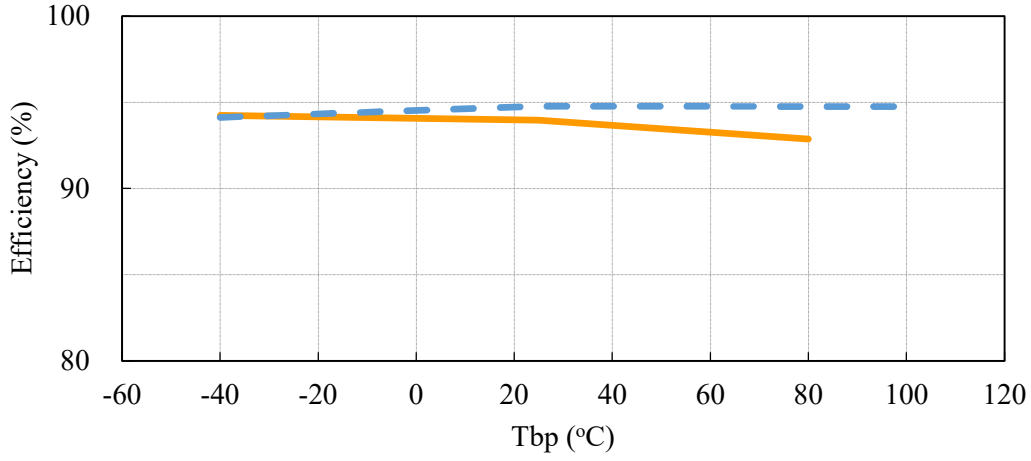


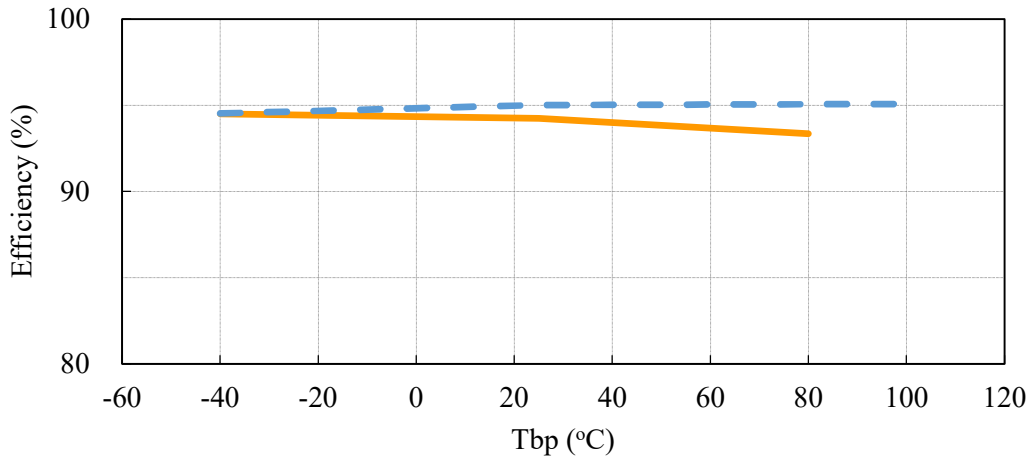
28V



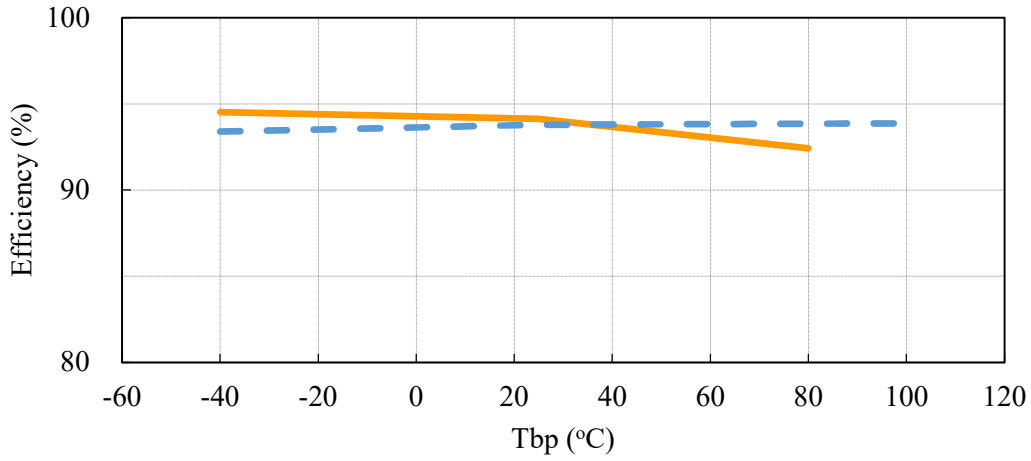
(5) 効率 対 ベースプレート温度
Efficiency vs. Baseplate temperature

Conditions Vin : 280 VDC
Io : 50 % - - - - -
: 100 % ——

36V



48V

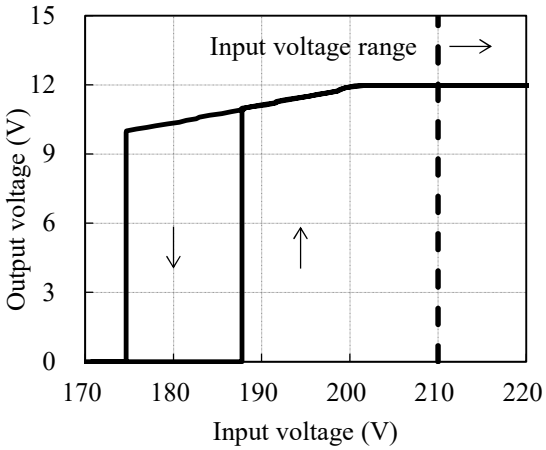


(6) 起動、停止電圧特性
Start and Stop voltage characteristics

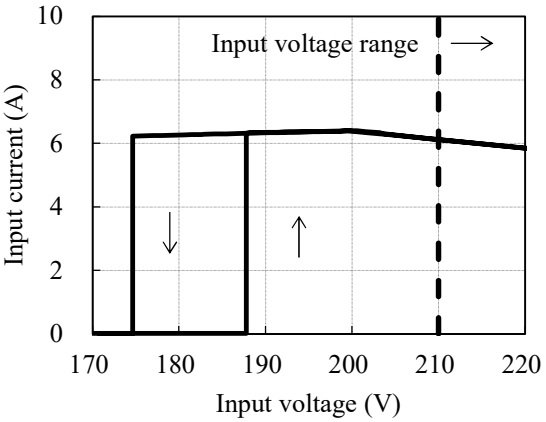
出力電圧 対 入力電圧
Output voltage vs. Input voltage
Conditions Io : 100 %
Tbp : 25 ℃

入力電流 対 入力電圧
Input current vs. Input voltage
Conditions Io : 100 %
Tbp : 25 ℃

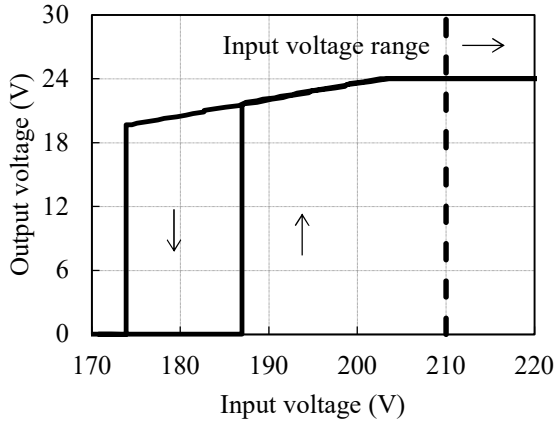
12V



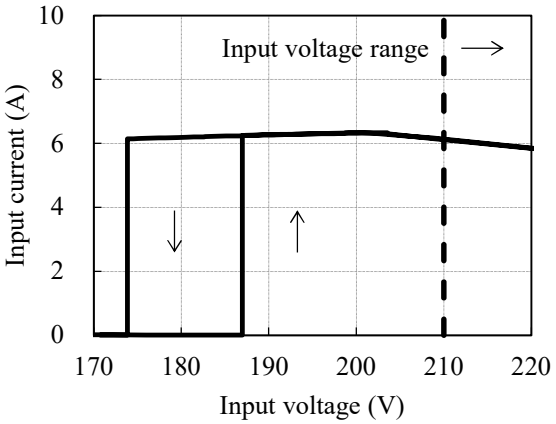
12V



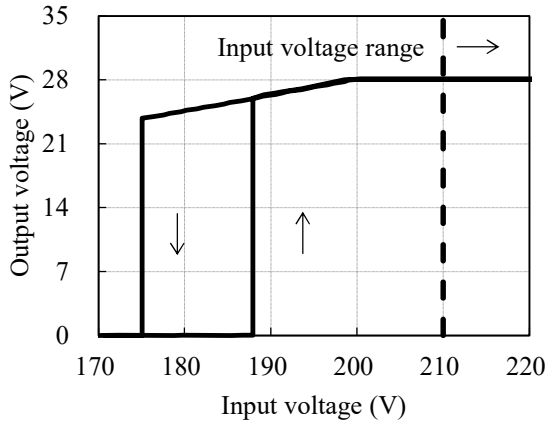
24V



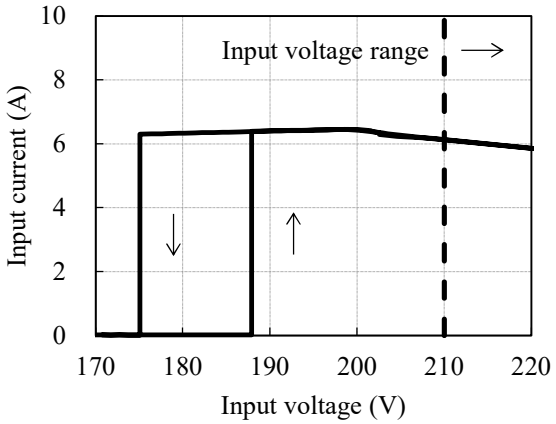
24V



28V



28V

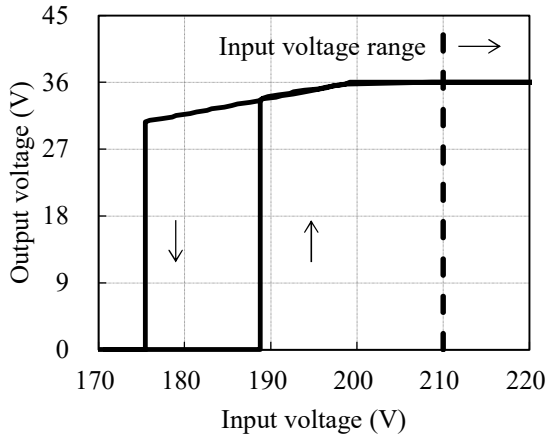


(6) 起動、停止電圧特性
Start and Stop voltage characteristics

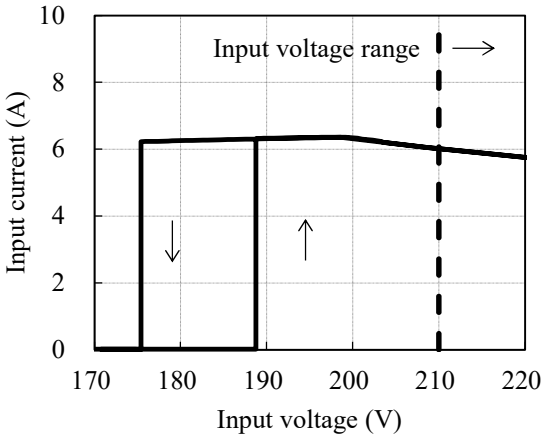
出力電圧 対 入力電圧
Output voltage vs. Input voltage
Conditions Io : 100 %
Tbp : 25 ℃

入力電流 対 入力電圧
Input current vs. Input voltage
Conditions Io : 100 %
Tbp : 25 ℃

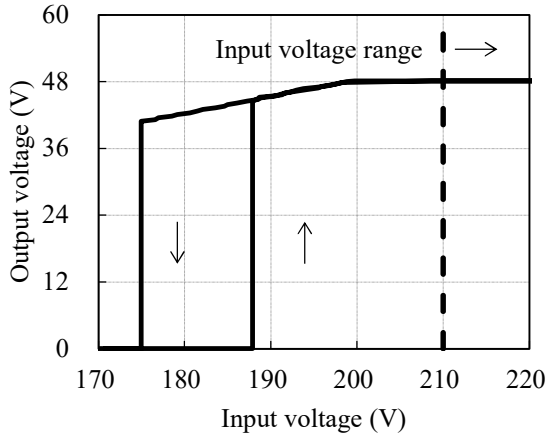
36V



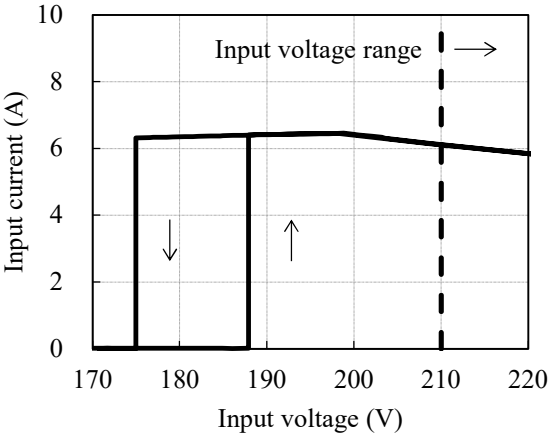
36V



48V



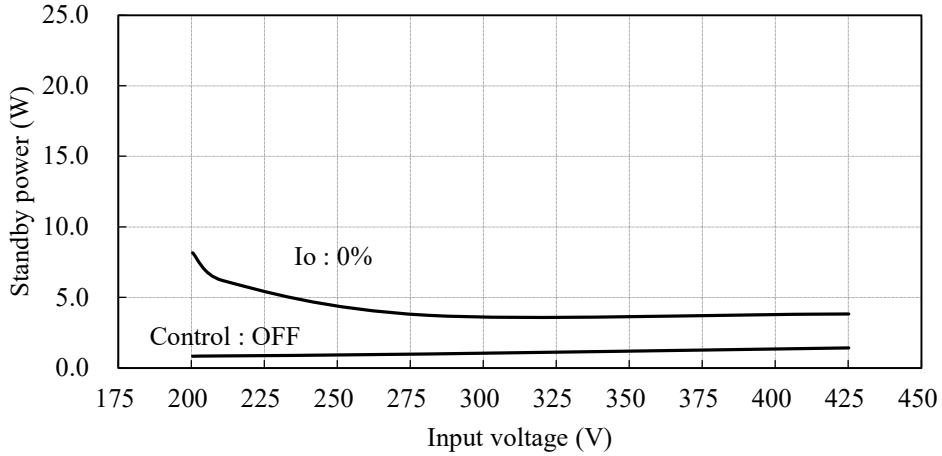
48V



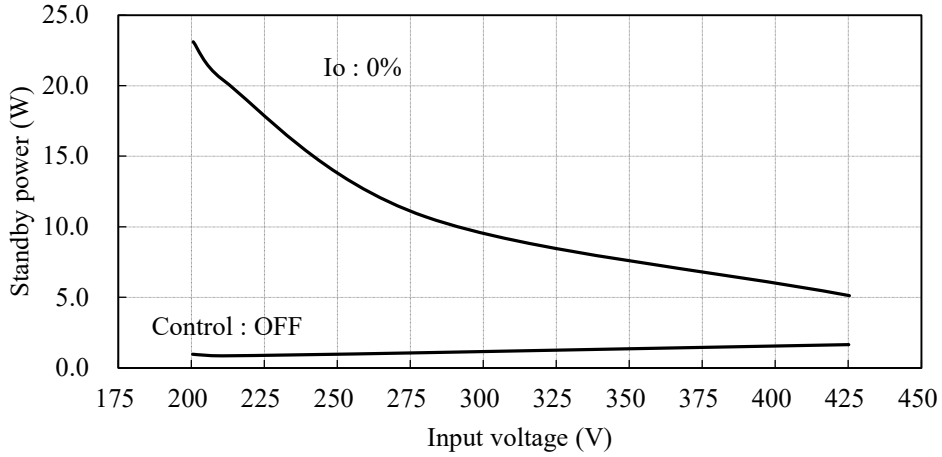
2.2 待機電力特性
Standby power characteristics

Condition Tbp: 25°C

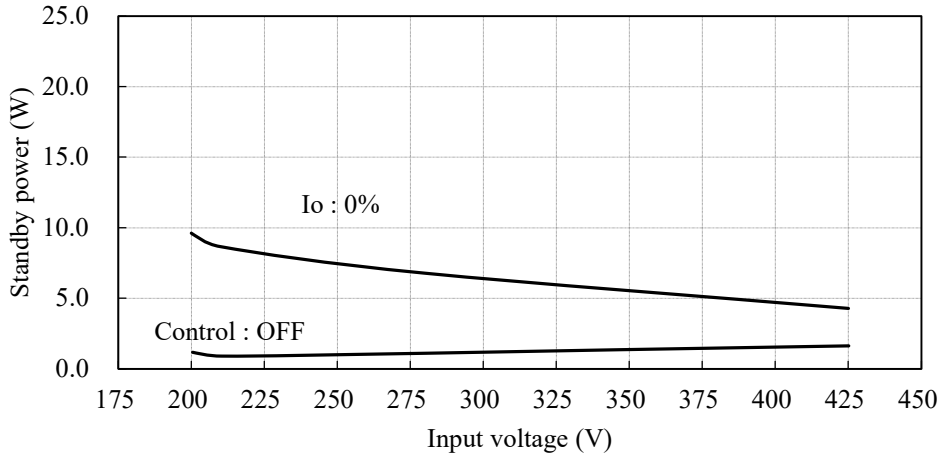
12V



24V



28V

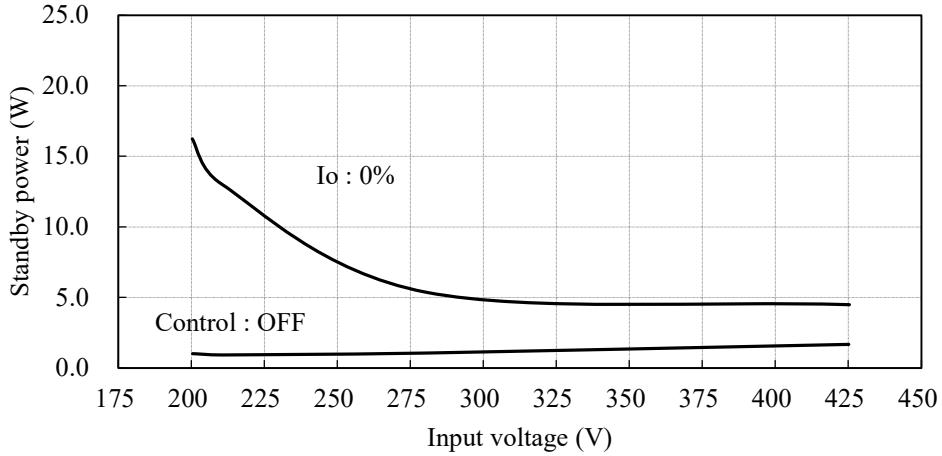


2.2 待機電力特性

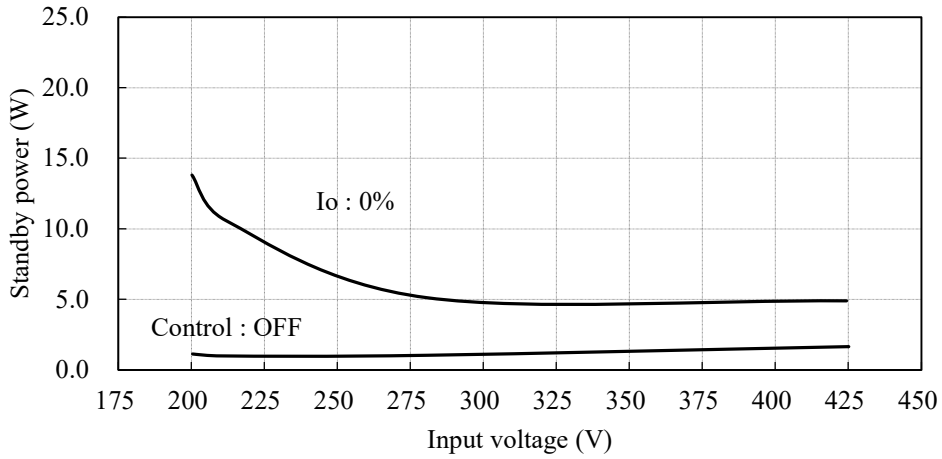
Standby power characteristics

Condition Tbp: 25°C

36V



48V

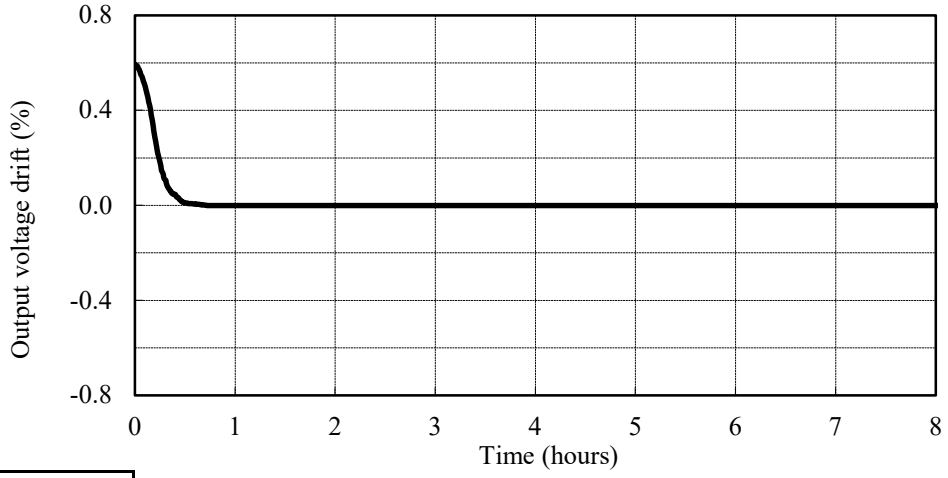


2.3 通電ドリフト特性

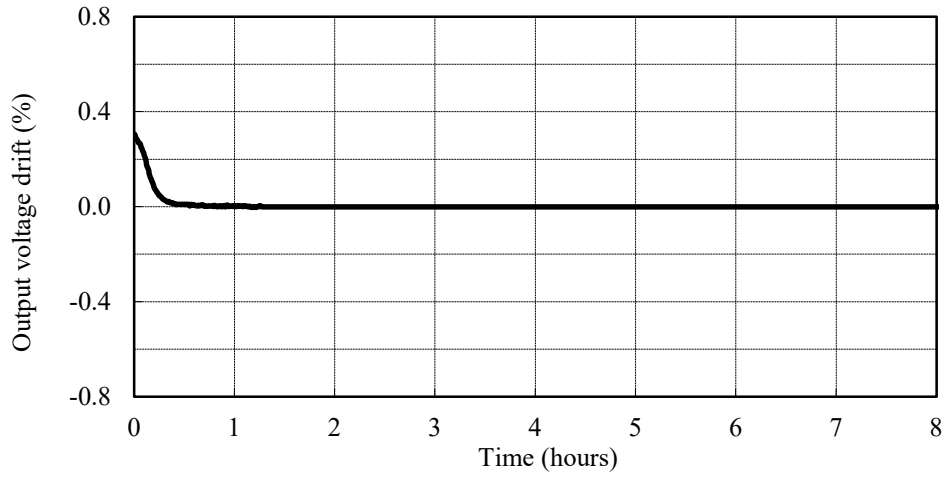
Warm up voltage drift characteristics

Conditions Vin : 280VDC
Io : 100%
Ta : 25°C

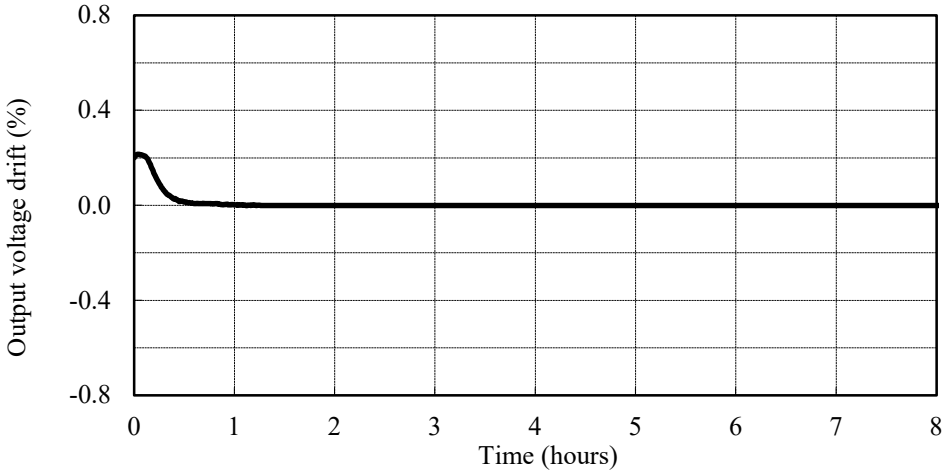
12V



24V



28V

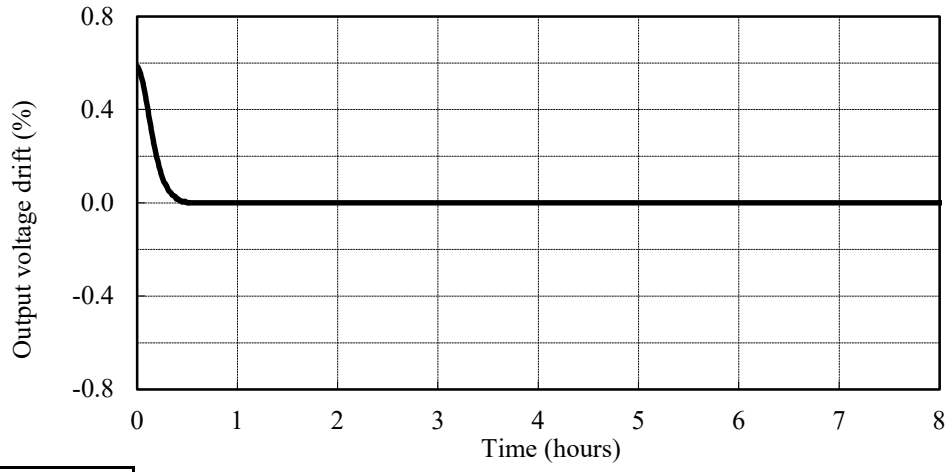


2.3 通電ドリフト特性

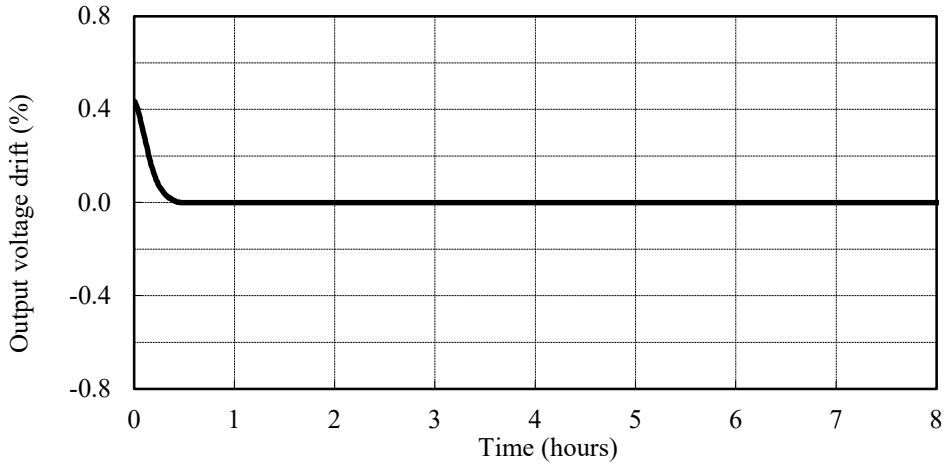
Warm up voltage drift characteristics

Conditions Vin : 280VDC
Io : 100%
Ta : 25°C

36V



48V



2.4 過電流保護特性
Over current protection (OCP) characteristics

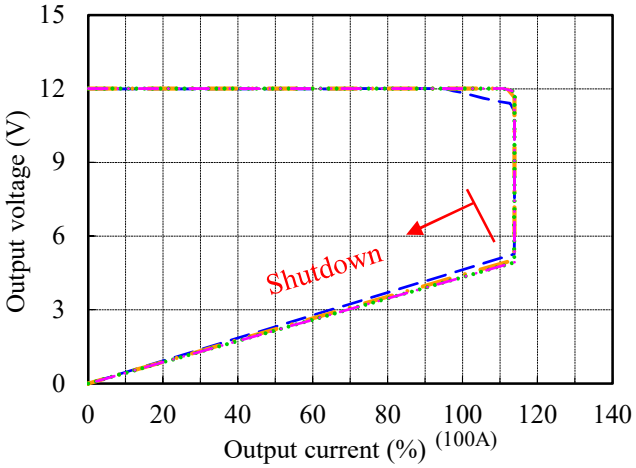
入力電圧依存性
Input voltage dependence

Conditions Vin : 200 VDC
: 210 VDC
: 280 VDC
: 425 VDC
Tbp : 25 °C

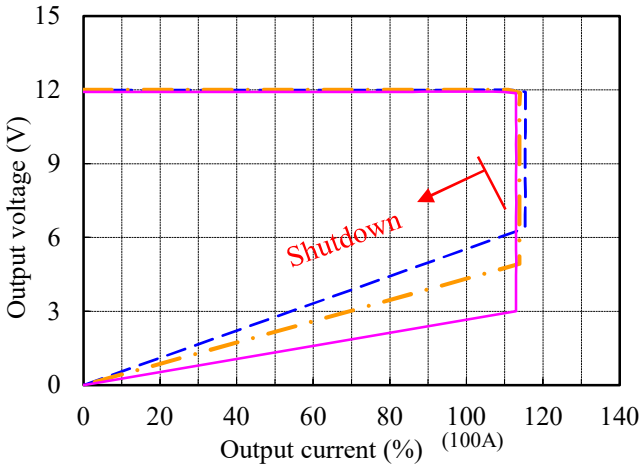
ベースプレート温度依存性
Baseplate temperature dependence

Conditions Vin : 280 VDC
Tbp : -40 °C
: 25 °C
: 100 °C

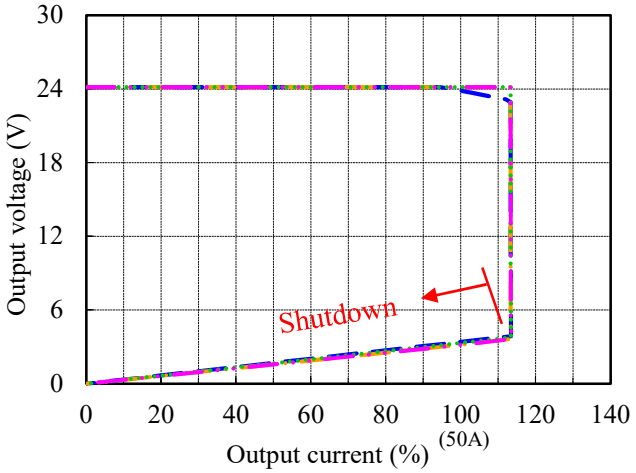
12V



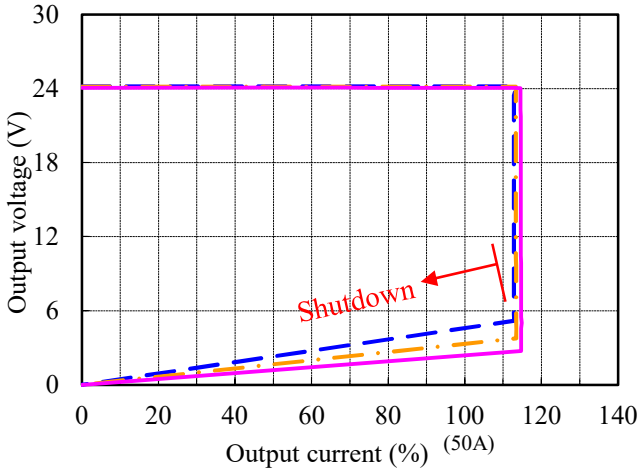
12V



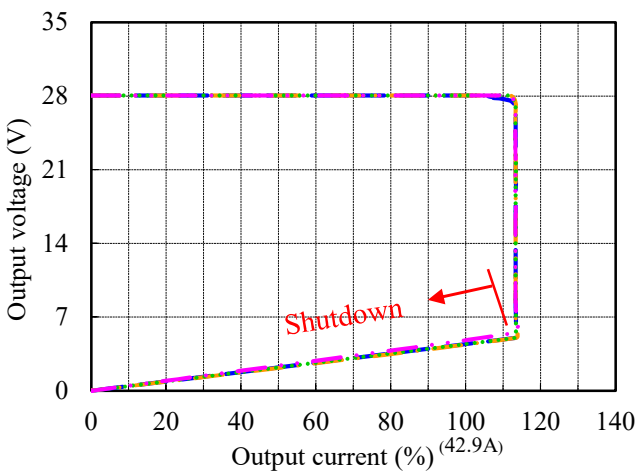
24V



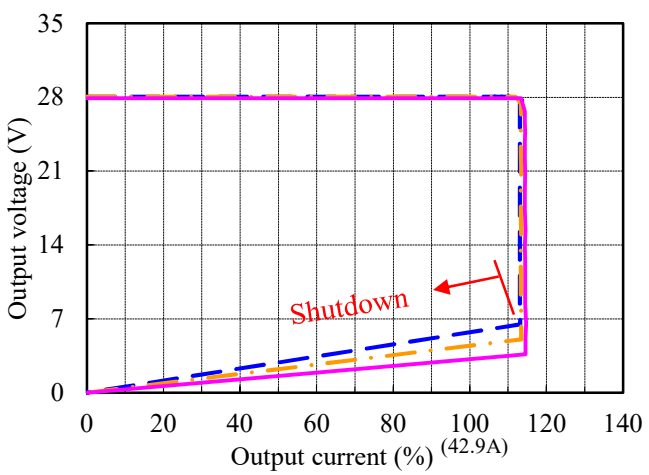
24V



28V



28V



2.4 過電流保護特性

Over current protection (OCP) characteristics

入力電圧依存性

Input voltage dependence

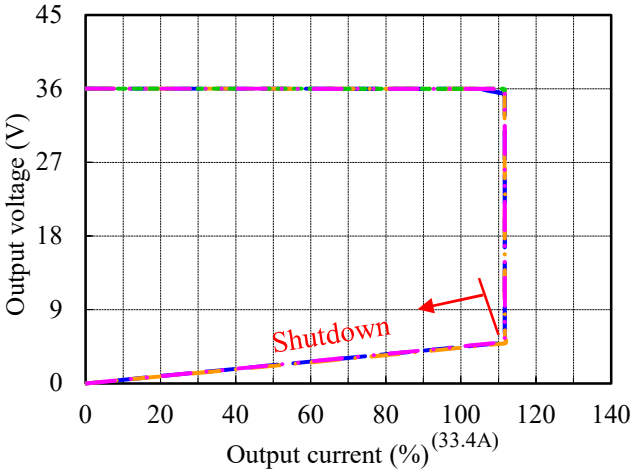
Conditions Vin : 200 VDC
: 210 VDC
: 280 VDC
: 425 VDC
Tbp : 25 °C

ベースプレート温度依存性

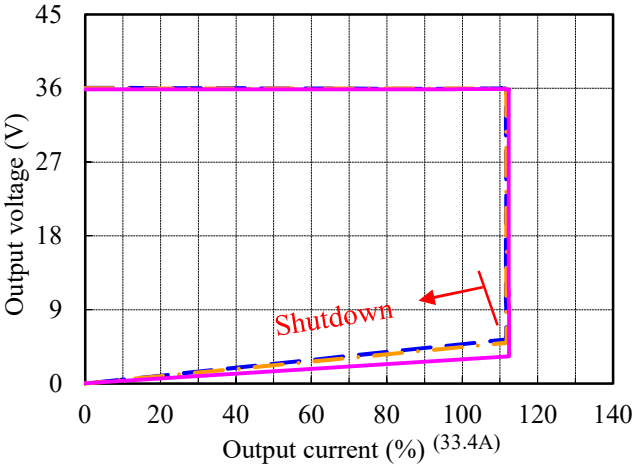
Baseplate temperature dependence

Conditions Vin : 280 VDC
Tbp : -40 °C
: 25 °C
: 100 °C

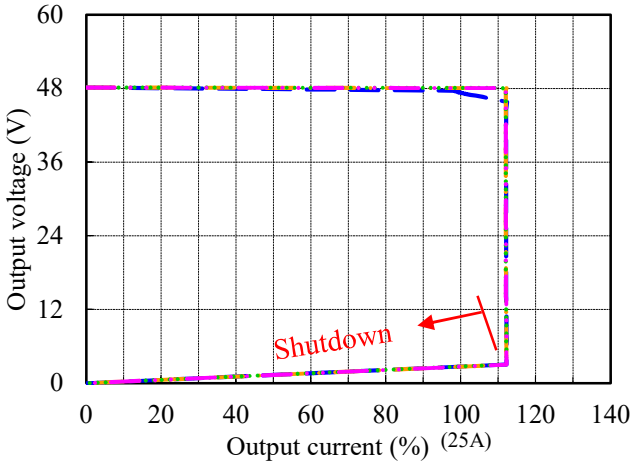
36V



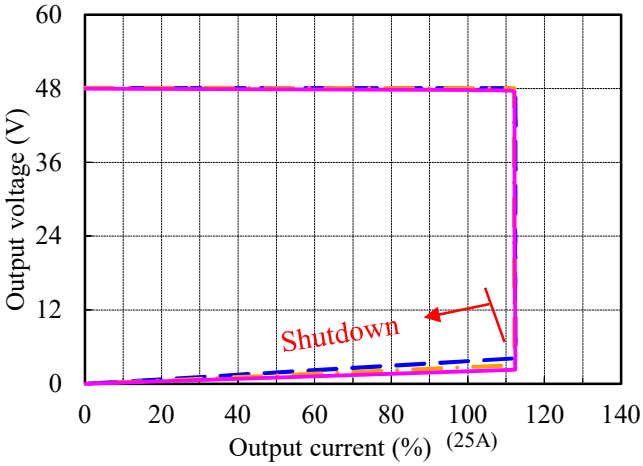
36V



48V



48V

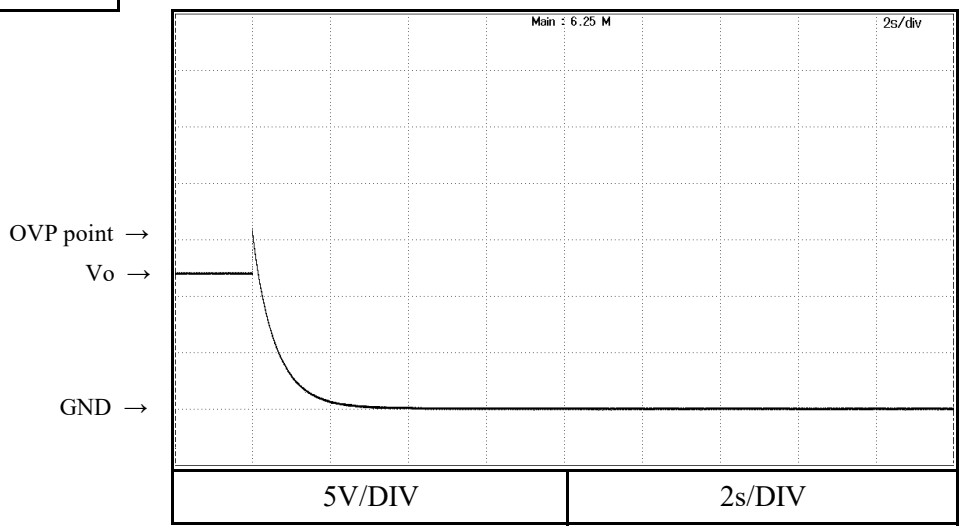


2.5 過電圧保護特性

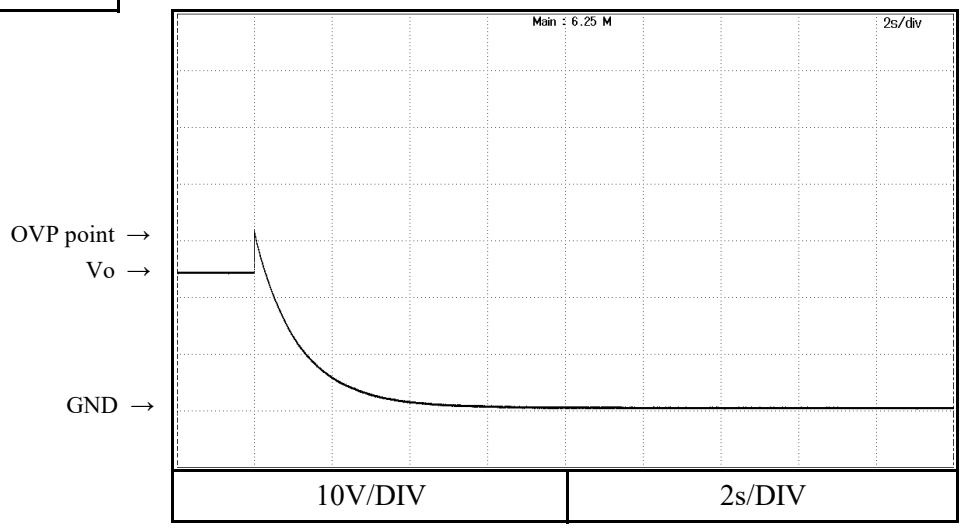
Over voltage protection (OVP) characteristics

Conditions Vin : 280VDC
Io : 0%
Tbp : 25°C

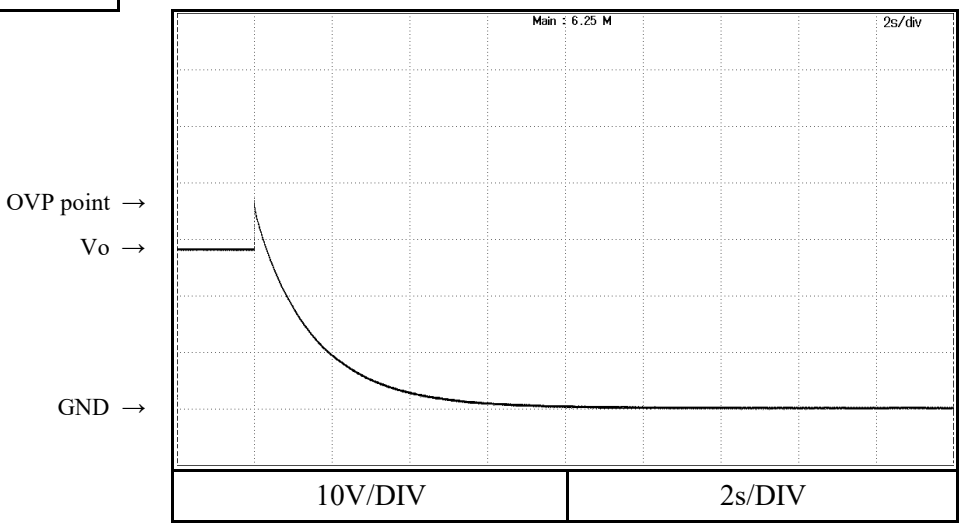
12V



24V



28V

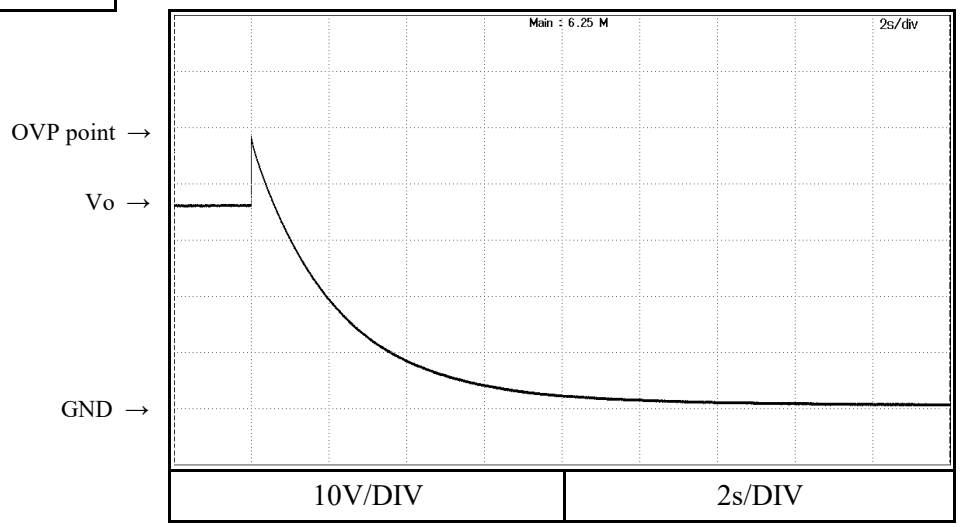


2.5 過電圧保護特性

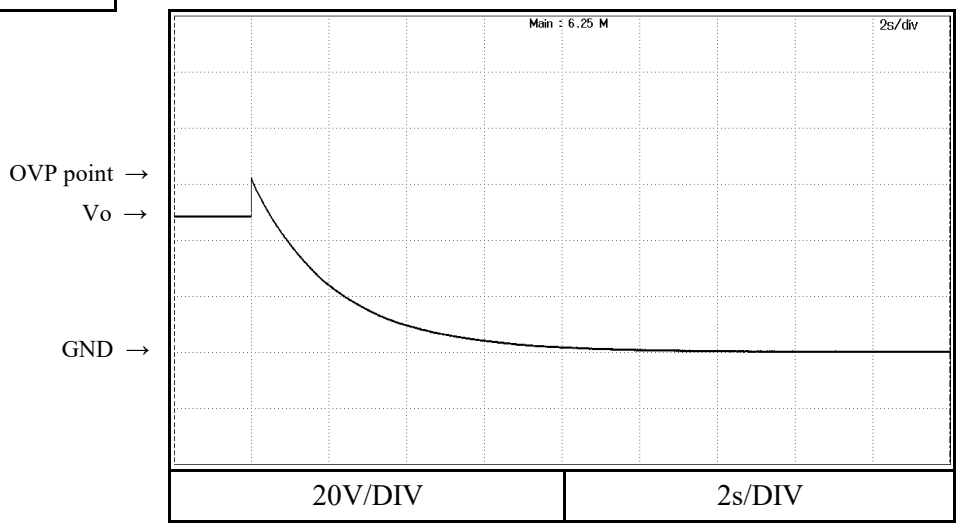
Over voltage protection (OVP) characteristics

Conditions Vin : 280VDC
Io : 0%
Tbp : 25°C

36V



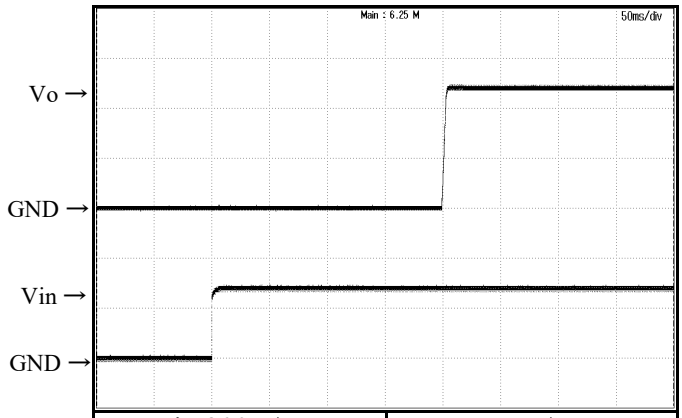
48V



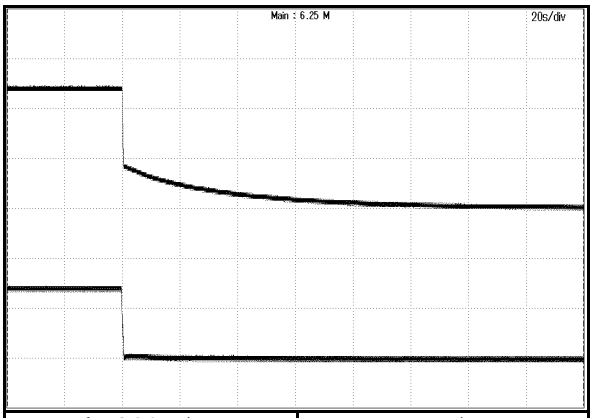
2.6 出力立ち上がり、立ち下がり特性
Output rise and fall characteristics

Conditions Vin : 280VDC
Io : 0 %
Tbp : 25°C

12V

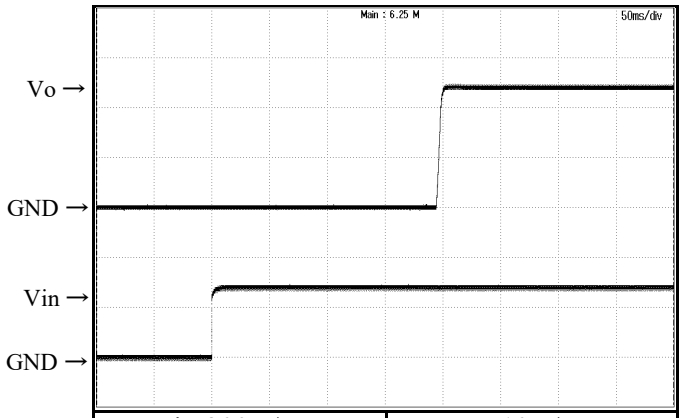


Vin:200V/DIV	Vo:5V/DIV
50ms/DIV	

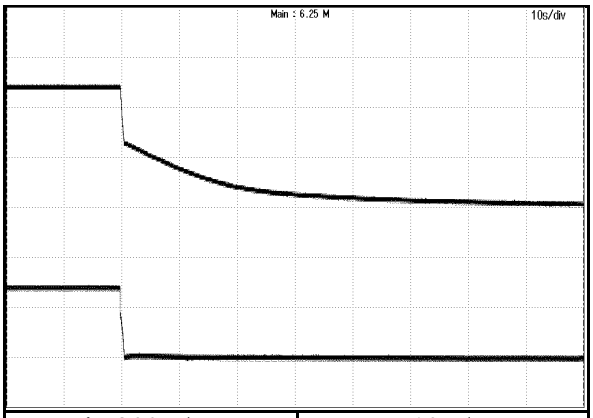


Vin:200V/DIV	Vo:5V/DIV
20s/DIV	

24V

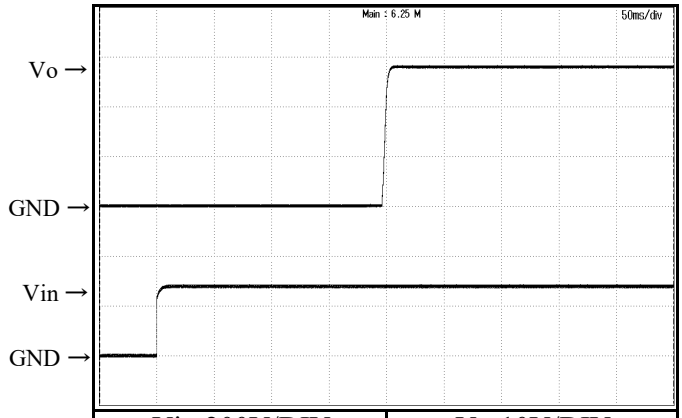


Vin:200V/DIV	Vo:10V/DIV
50ms/DIV	

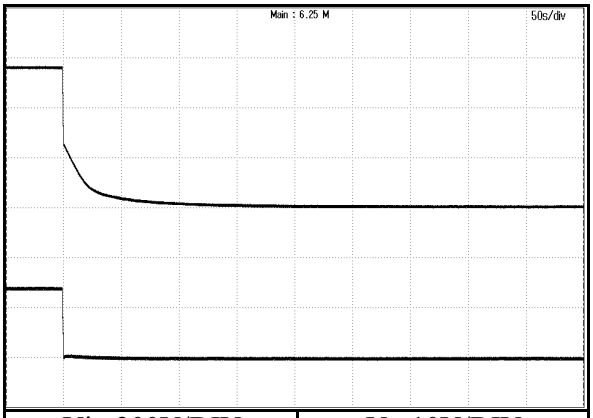


Vin:200V/DIV	Vo:10V/DIV
10s/DIV	

28V



Vin:200V/DIV	Vo:10V/DIV
50ms/DIV	

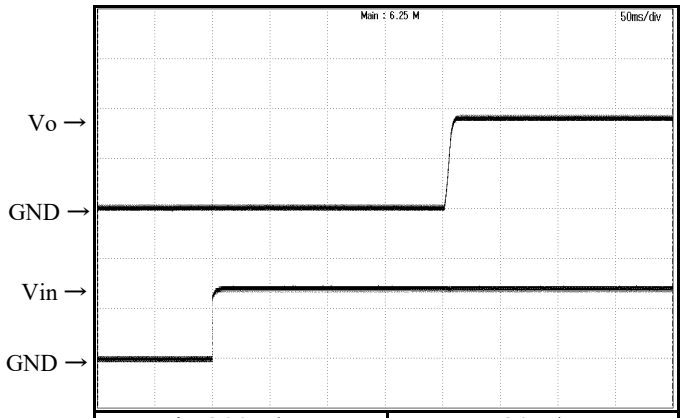


Vin:200V/DIV	Vo:10V/DIV
50s/DIV	

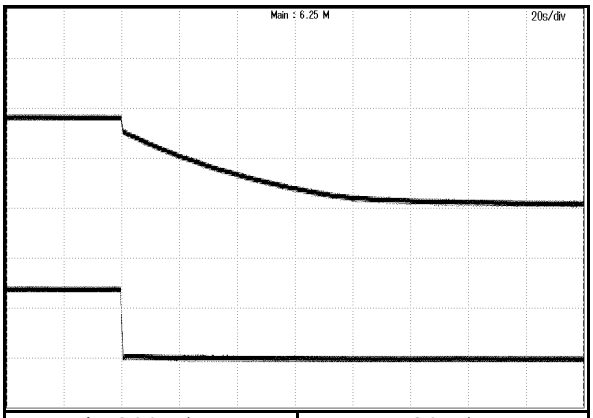
2.6 出力立ち上がり、立ち下がり特性
Output rise and fall characteristics

Conditions　Vin : 280VDC
Io : 0 %
Tbp : 25°C

36V

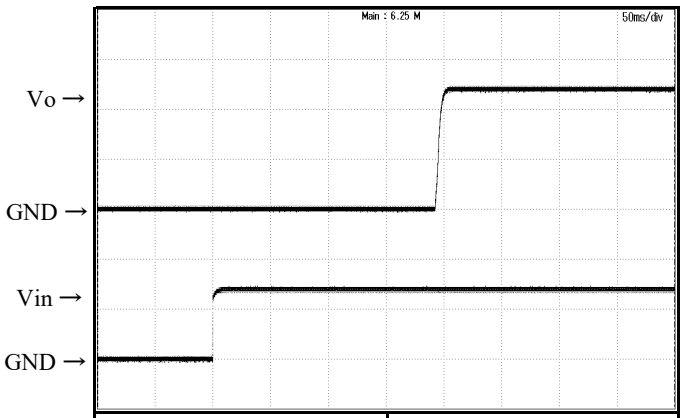


Vin:200V/DIV	Vo:20V/DIV
50ms/DIV	

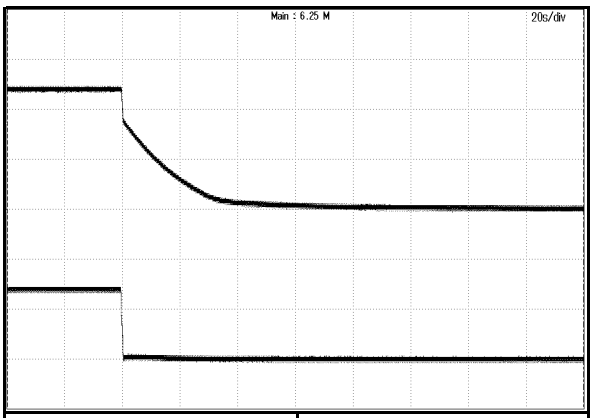


Vin:200V/DIV	Vo:20V/DIV
20s/DIV	

48V



Vin:200V/DIV	Vo:20V/DIV
50ms/DIV	

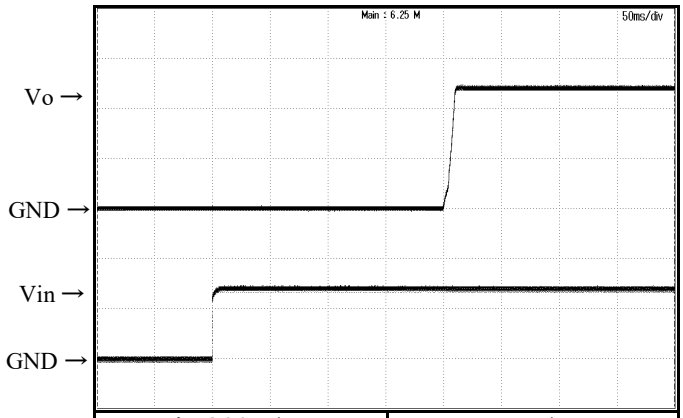


Vin:200V/DIV	Vo:20V/DIV
20s/DIV	

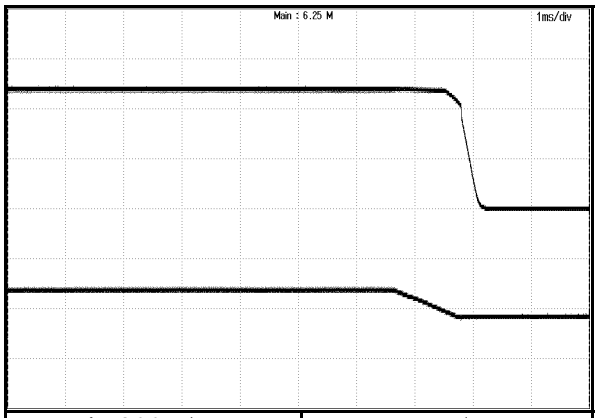
2.6 出力立ち上がり、立ち下がり特性
Output rise and fall characteristics

Conditions Vin : 280VDC
Io : 100 %
Tbp : 25°C

12V

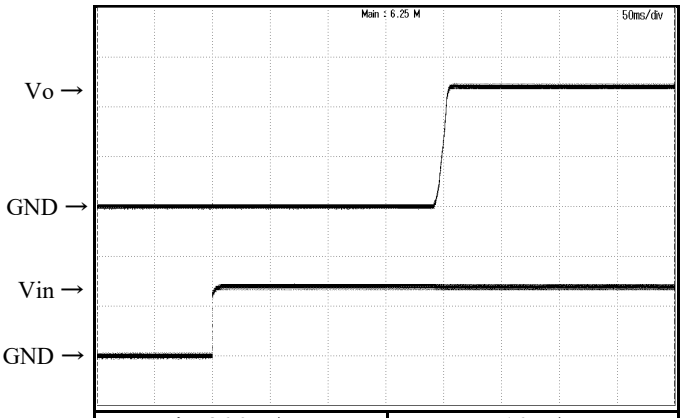


Vin:200V/DIV	Vo:5V/DIV
50ms/DIV	

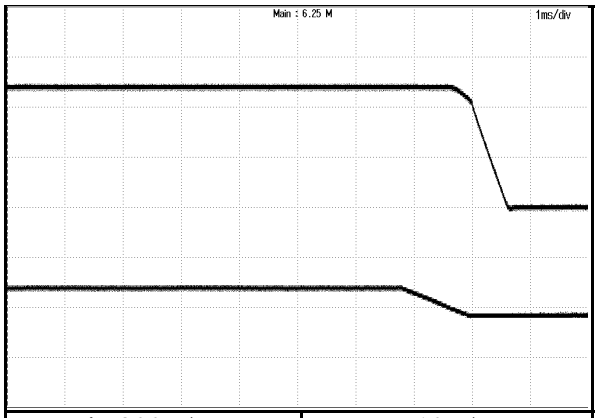


Vin:200V/DIV	Vo:5V/DIV
1ms/DIV	

24V

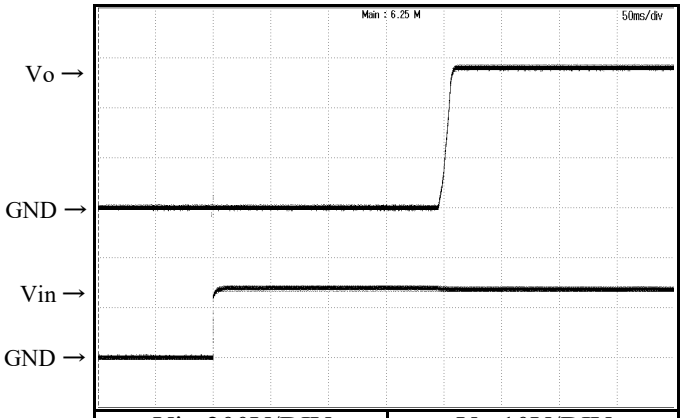


Vin:200V/DIV	Vo:10V/DIV
50ms/DIV	

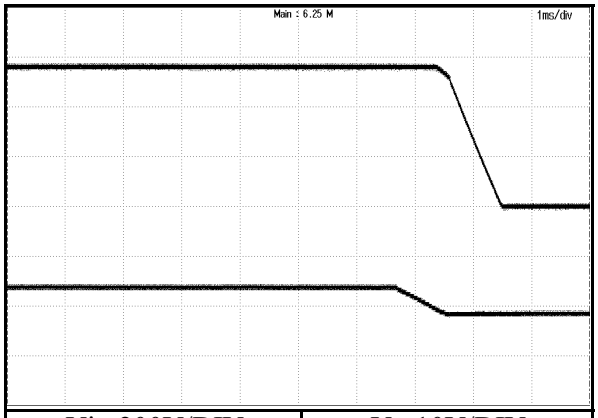


Vin:200V/DIV	Vo:10V/DIV
1ms/DIV	

28V



Vin:200V/DIV	Vo:10V/DIV
50ms/DIV	

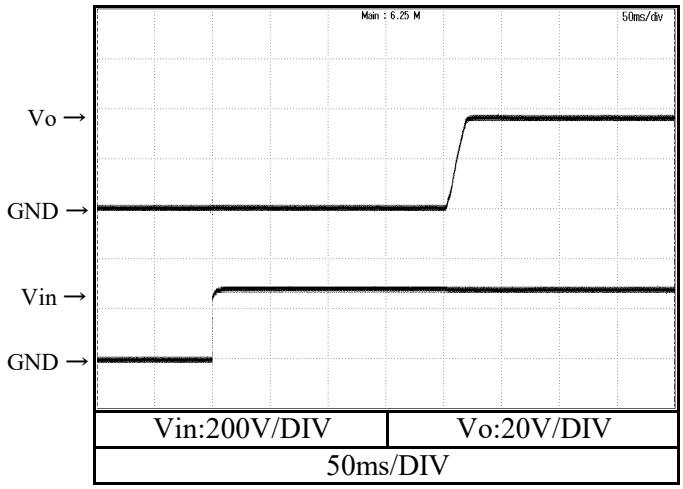


Vin:200V/DIV	Vo:10V/DIV
1ms/DIV	

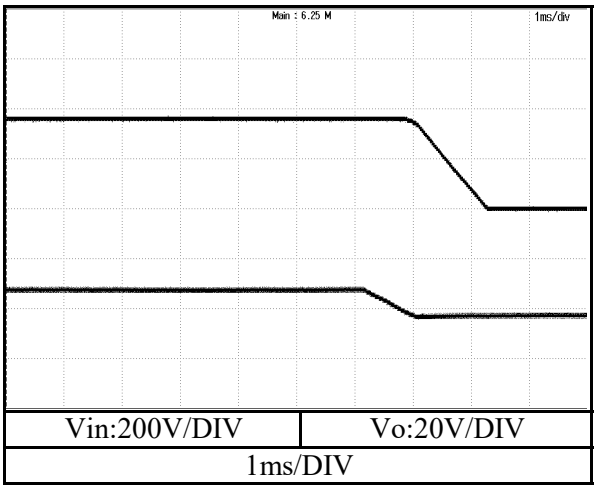
2.6 出力立ち上がり、立ち下がり特性
Output rise and fall characteristics

Conditions Vin : 280VDC
Io : 100 %
Tbp : 25°C

36V

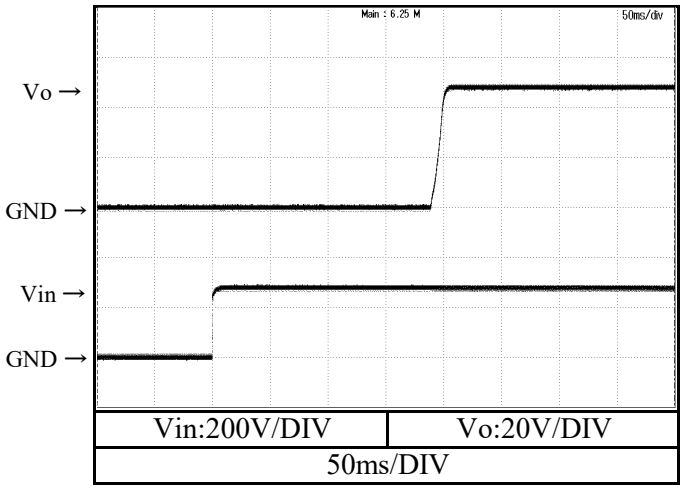


Vin:200V/DIV	Vo:20V/DIV
50ms/DIV	

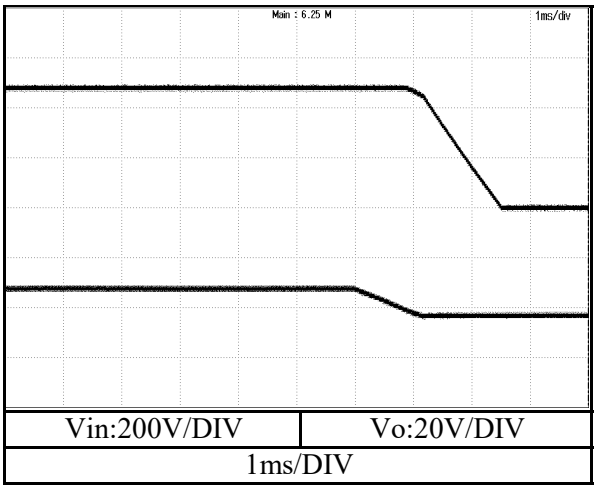


Vin:200V/DIV	Vo:20V/DIV
1ms/DIV	

48V



Vin:200V/DIV	Vo:20V/DIV
50ms/DIV	

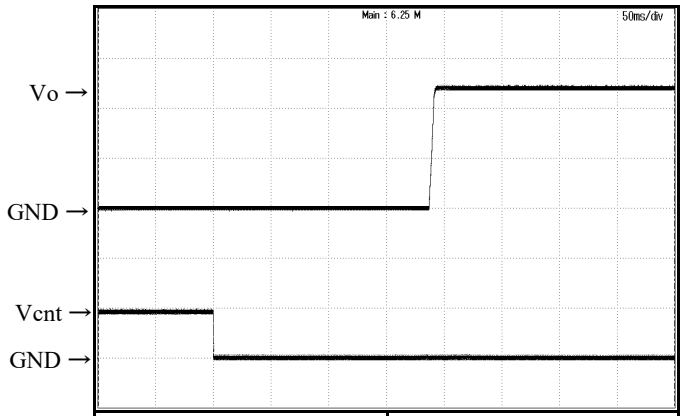


Vin:200V/DIV	Vo:20V/DIV
1ms/DIV	

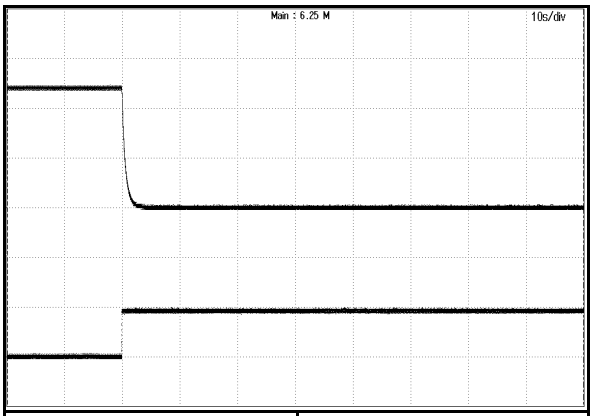
2.6 出力立ち上がり、立ち下がり特性（ON/OFFコントロール時）
Output rise and fall characteristics with ON/OFF CONTROL

Conditions　Vin：280VDC
Io：0 %
Tbp：25°C

12V

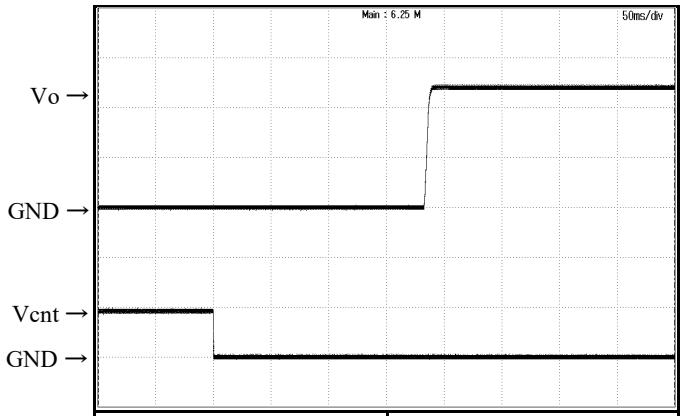


Vcnt:10V/DIV	Vo:5V/DIV
50ms/DIV	

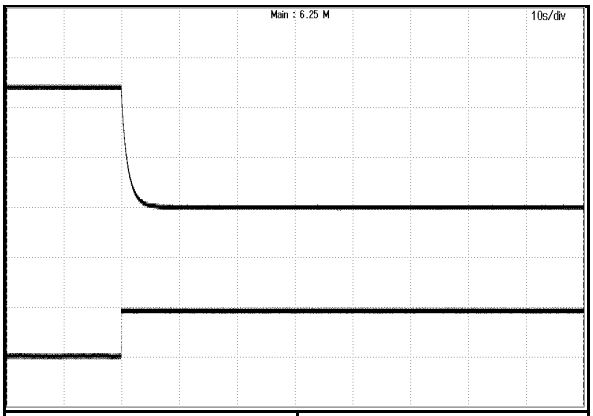


Vcnt:10V/DIV	Vo:5V/DIV
10s/DIV	

24V

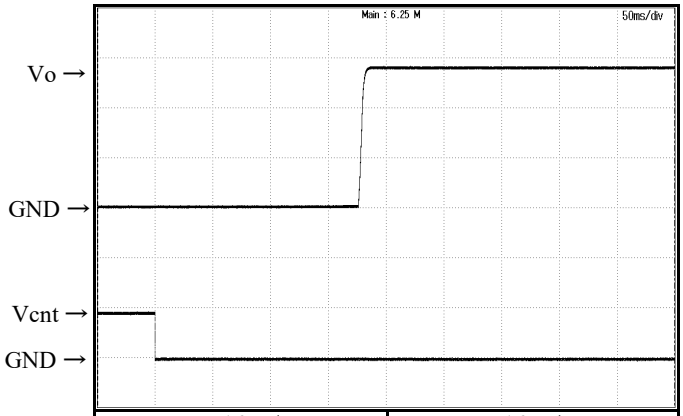


Vcnt:10V/DIV	Vo:10V/DIV
50ms/DIV	

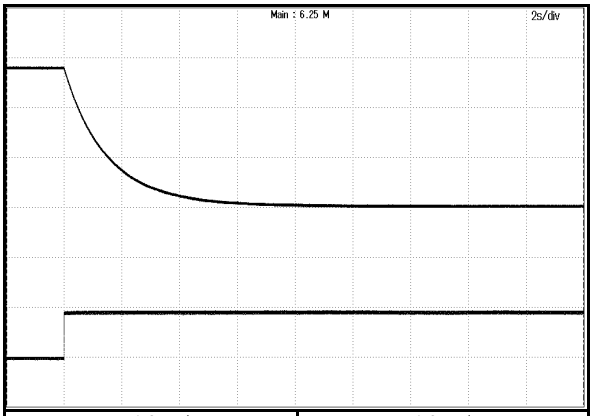


Vcnt:10V/DIV	Vo:10V/DIV
10s/DIV	

28V



Vcnt:10V/DIV	Vo:10V/DIV
50ms/DIV	

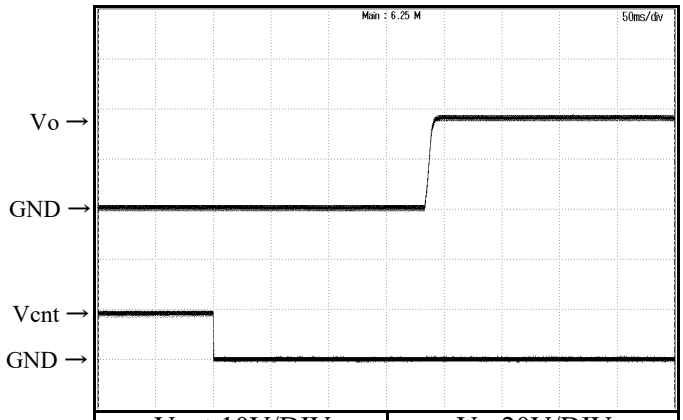


Vcnt:10V/DIV	Vo:10V/DIV
2s/DIV	

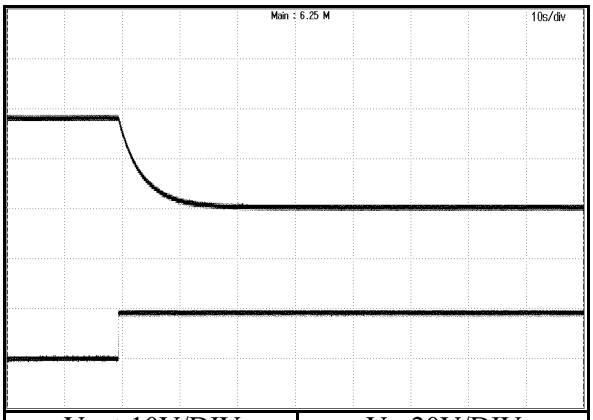
2.6 出力立ち上がり、立ち下がり特性（ON/OFFコントロール時）
Output rise and fall characteristics with ON/OFF CONTROL

Conditions　Vin：280VDC
Io：0 %
Tbp：25°C

36V

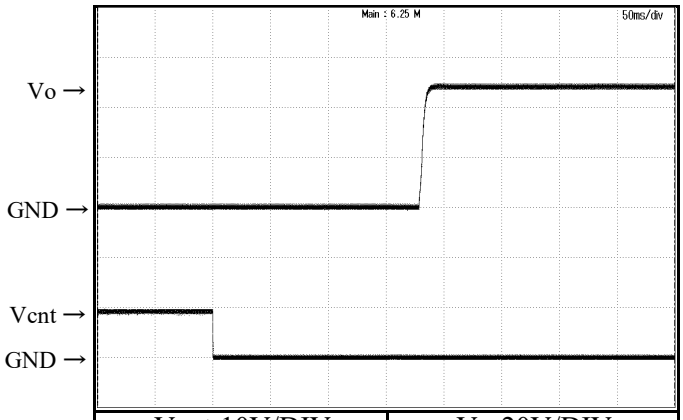


Vcnt:10V/DIV	Vo:20V/DIV
50ms/DIV	

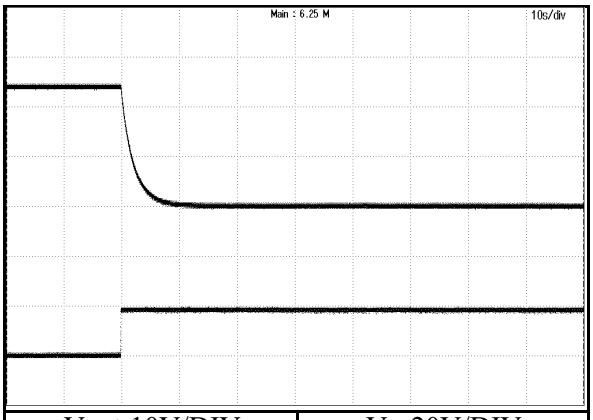


Vcnt:10V/DIV	Vo:20V/DIV
10s/DIV	

48V



Vcnt:10V/DIV	Vo:20V/DIV
50ms/DIV	

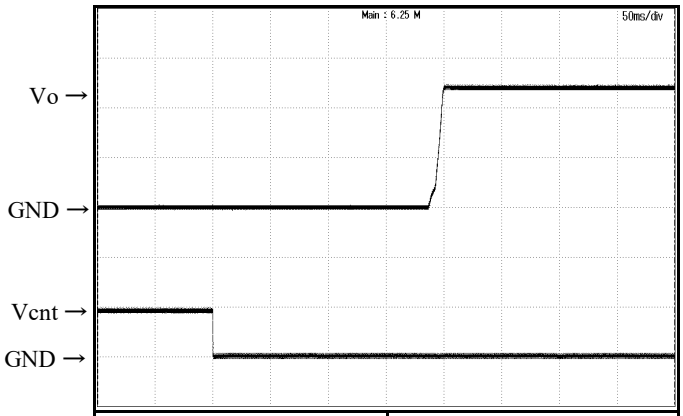


Vcnt:10V/DIV	Vo:20V/DIV
10s/DIV	

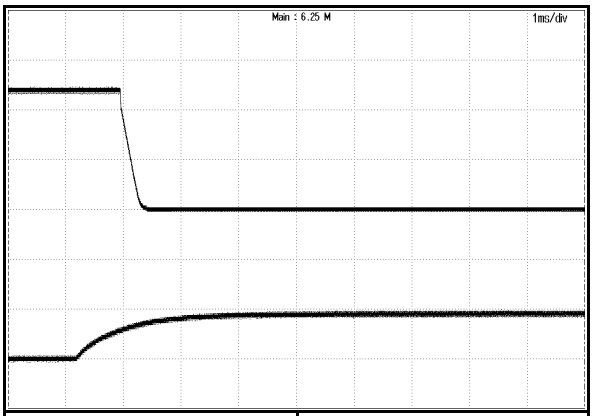
2.6 出力立ち上がり、立ち下がり特性（ON/OFFコントロール時）
Output rise and fall characteristics with ON/OFF CONTROL

Conditions　Vin：280VDC
Io：100 %
Tbp：25°C

12V

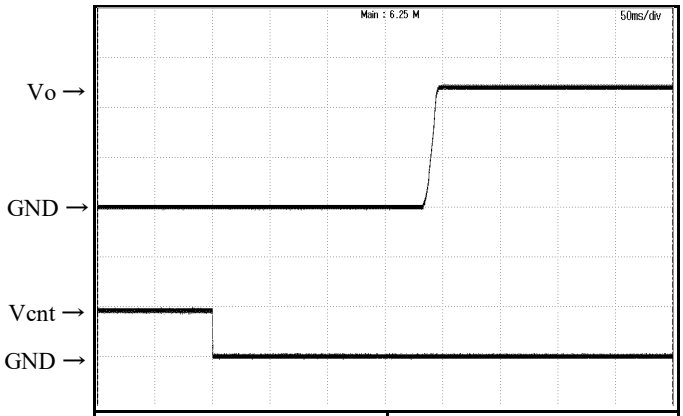


Vcnt:10V/DIV	Vo:5V/DIV
50ms/DIV	

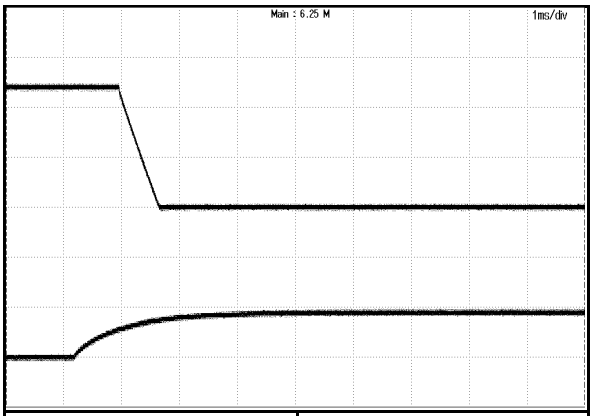


Vcnt:10V/DIV	Vo:5V/DIV
1ms/DIV	

24V

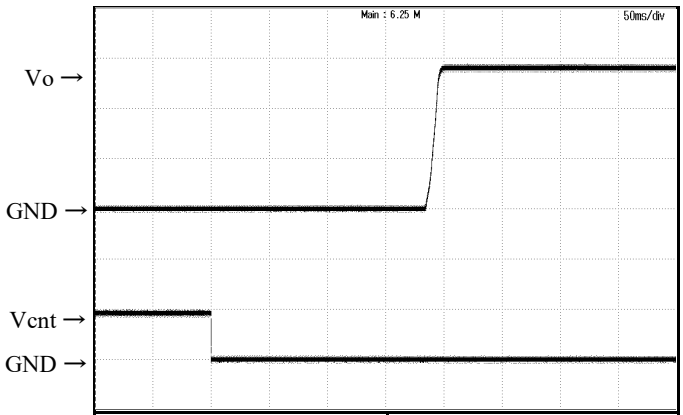


Vcnt:10V/DIV	Vo:10V/DIV
50ms/DIV	

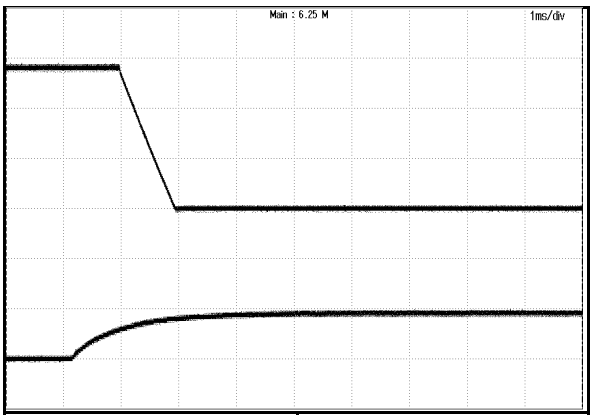


Vcnt:10V/DIV	Vo:10V/DIV
1ms/DIV	

28V



Vcnt:10V/DIV	Vo:10V/DIV
50ms/DIV	

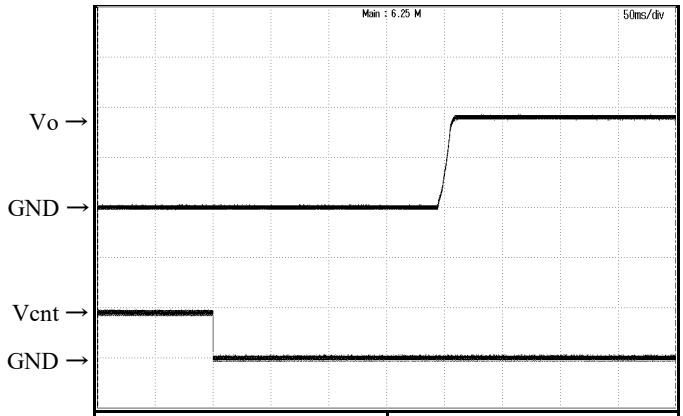


Vcnt:10V/DIV	Vo:10V/DIV
1ms/DIV	

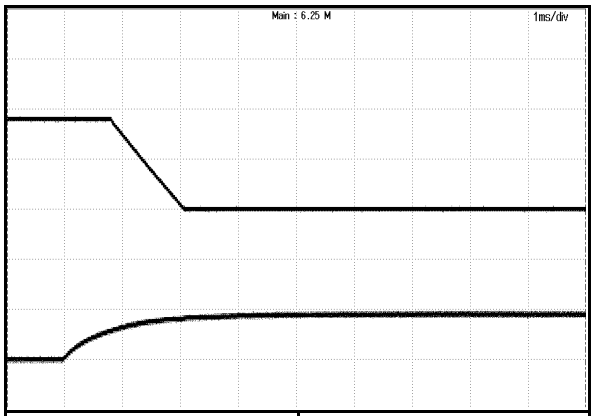
2.6 出力立ち上がり、立ち下がり特性（ON/OFFコントロール時）
Output rise and fall characteristics with ON/OFF CONTROL

Conditions　Vin：280VDC
Io：100 %
Tbp：25°C

36V

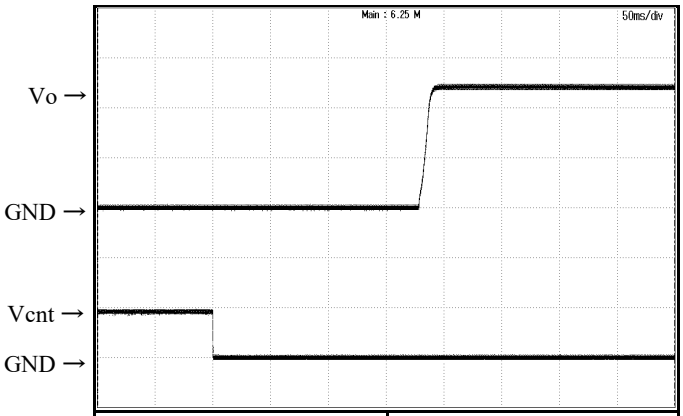


Vcnt:10V/DIV	Vo:20V/DIV
50ms/DIV	

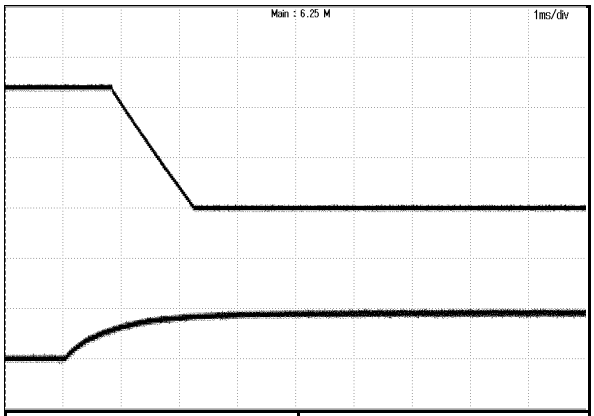


Vcnt:10V/DIV	Vo:20V/DIV
1ms/DIV	

48V



Vcnt:10V/DIV	Vo:20V/DIV
50ms/DIV	

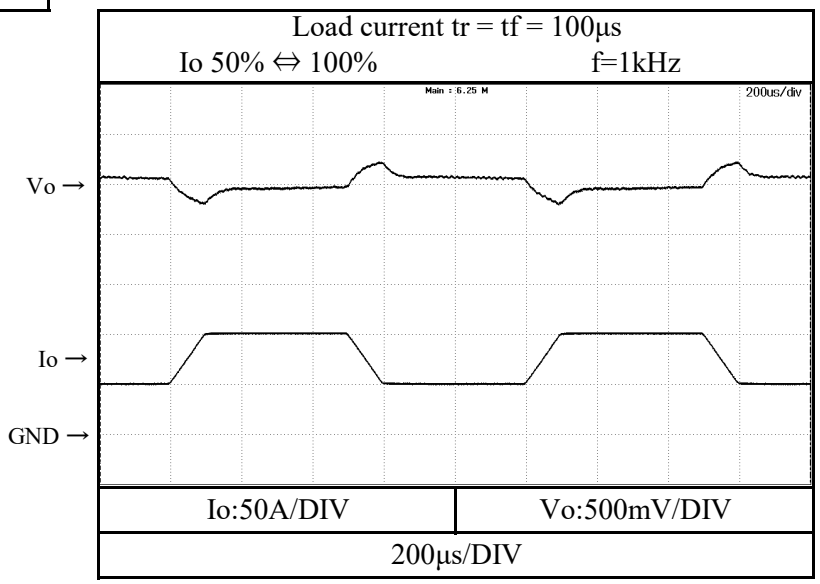


Vcnt:10V/DIV	Vo:20V/DIV
1ms/DIV	

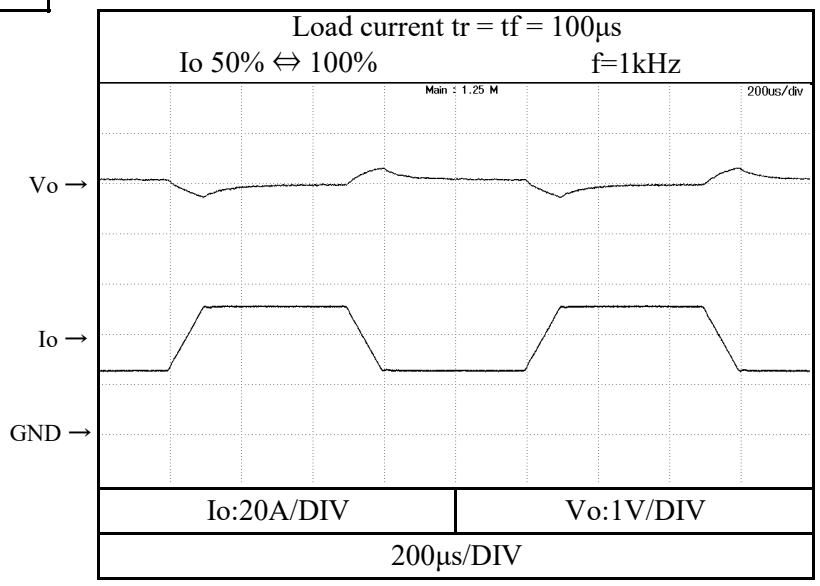
2.7 過渡応答(負荷急変)特性
Dynamic load response characteristics

Conditions Vin : 280VDC
Tbp : 25°C

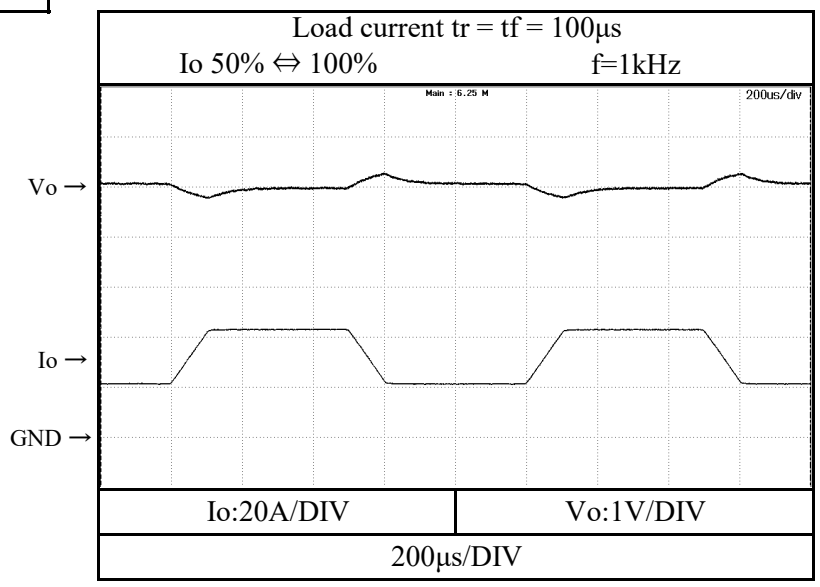
12V



24V



28V



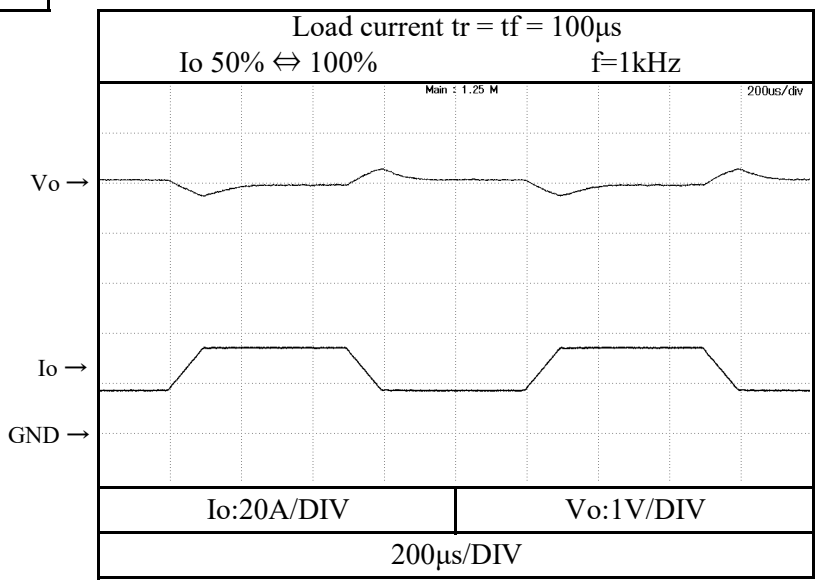
2.7 過渡応答(負荷急変)特性

Dynamic load response characteristics

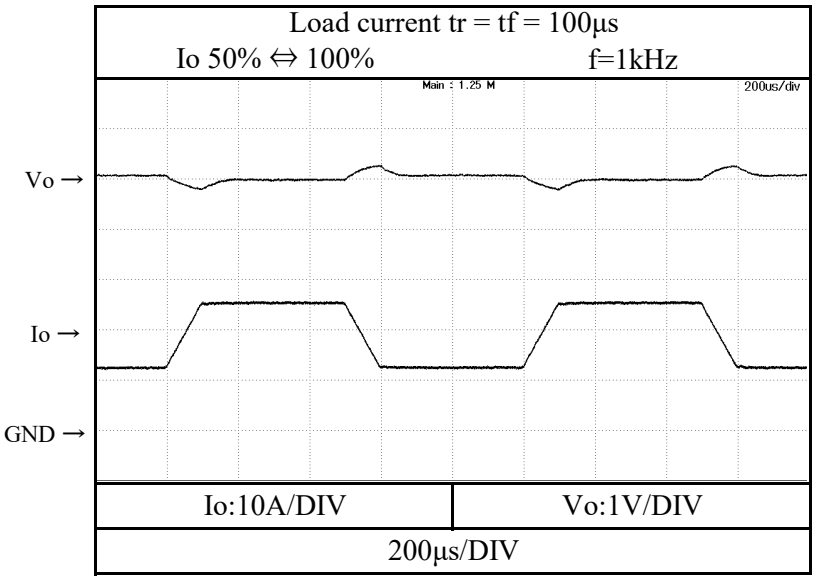
Conditions Vin : 280VDC

Tbp : 25°C

36V



48V

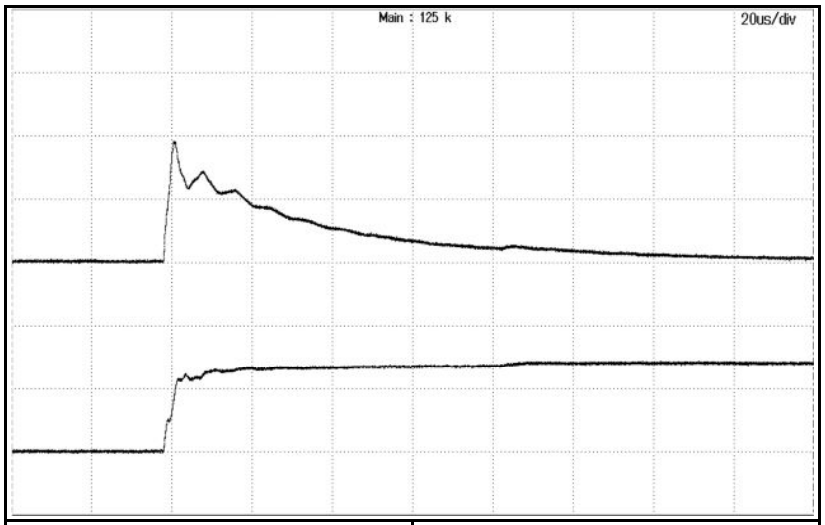


2.8 入力サージ電流(突入電流)特性

Inrush current characteristics

Conditions Vin : 280VDC
Io : 100%
Tbp : 25°C

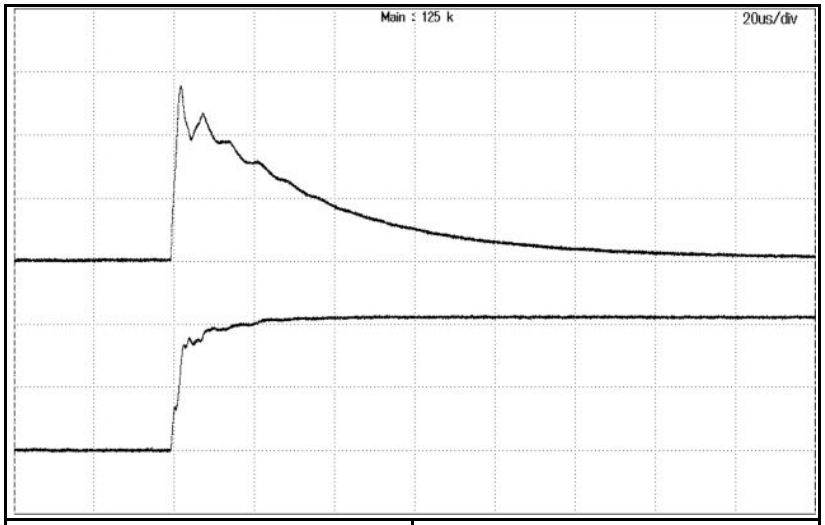
48V



Iin:200A/DIV	Vin:200V/DIV
20μs/DIV	

Conditions Vin : 425VDC
Io : 100%
Tbp : 25°C

48V



Iin:200A/DIV	Vin:200V/DIV
20μs/DIV	

ここでは48V出力モデルのデータを提示してありますが、入力突入電流は外付け入力コンデンサの容量値と電源内部の入力コンデンサの容量値が支配的な為、他の出力モデルにおいても同様の特性となります。

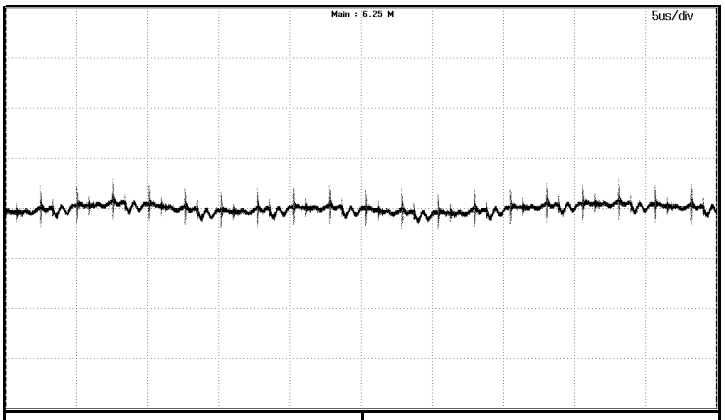
Although the data of 48V output model only is shown here, other output model data will be same, because inrush current performance depends on external input capacitance and internal input capacitance.

2.9 出力リップル・ノイズ波形

Output ripple and noise waveform

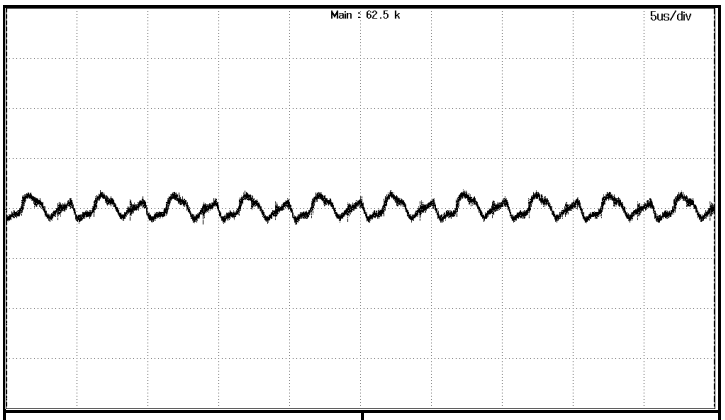
Conditions Vin : 280VDC
Io : 100%
Tbp : 25°C

12V



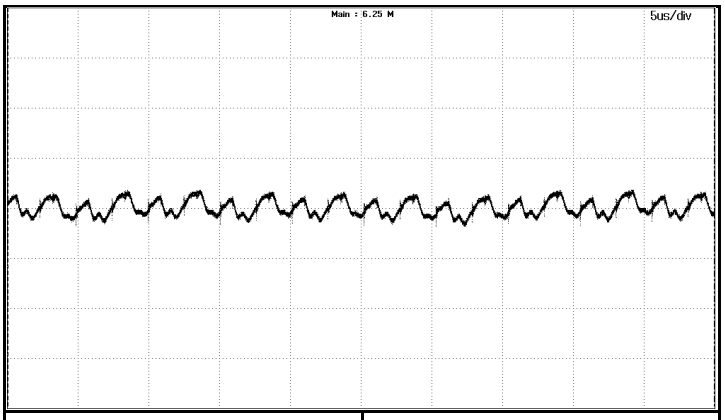
50mV/DIV	5μs/DIV

24V



100mV/DIV	5μs/DIV

28V



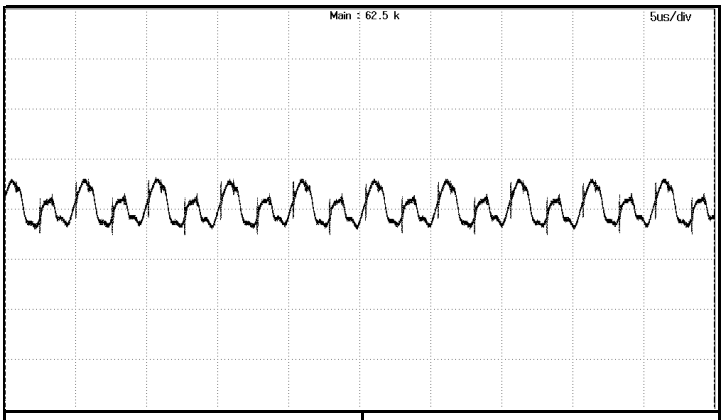
50mV/DIV	5μs/DIV

2.9 出力リップル・ノイズ波形

Output ripple and noise waveform

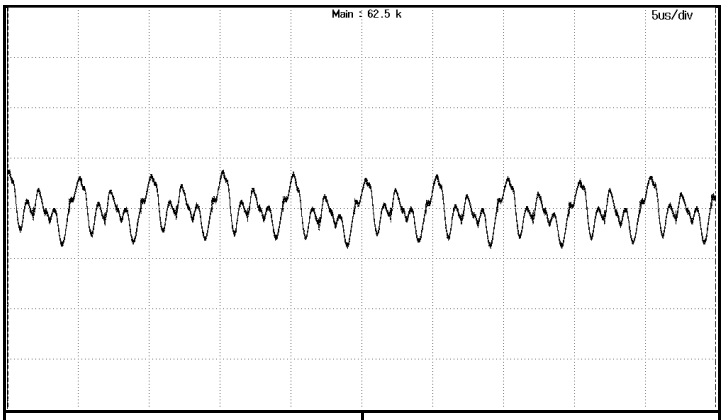
Conditions Vin : 280VDC
Io : 100%
Tbp : 25°C

36V



50mV/DIV	5μs/DIV

48V



50mV/DIV	5μs/DIV

2.10 EMI特性

Electro-Magnetic Interference characteristics

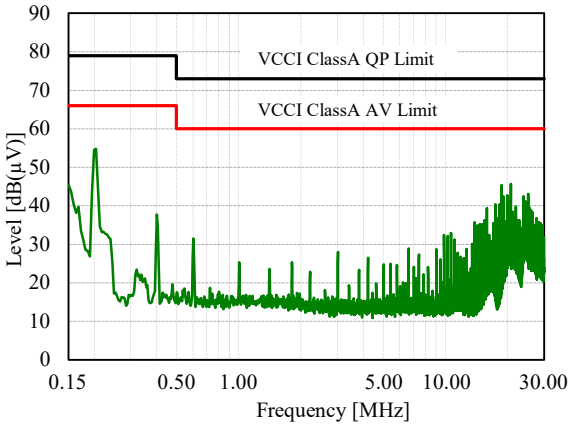
(a) 雑音端子電圧（帰還ノイズ）

Conducted Emission Noise

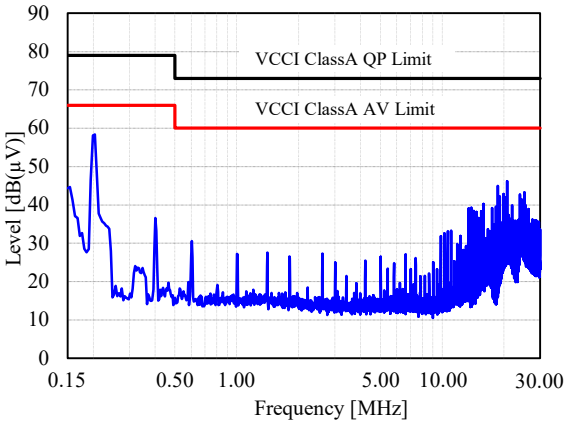
Conditions Vin : 280VDC
Io : 100%
Tbp : 25°C

12V

+Vin

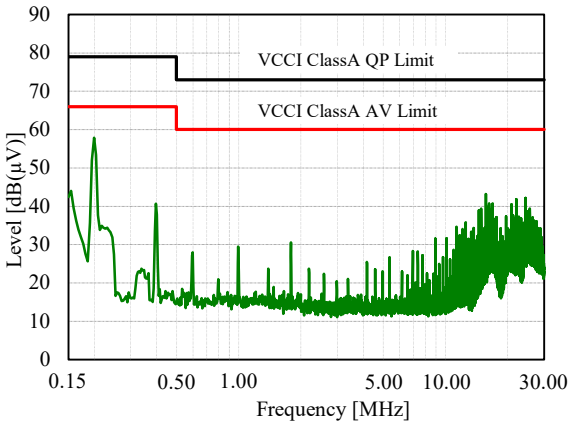


-Vin

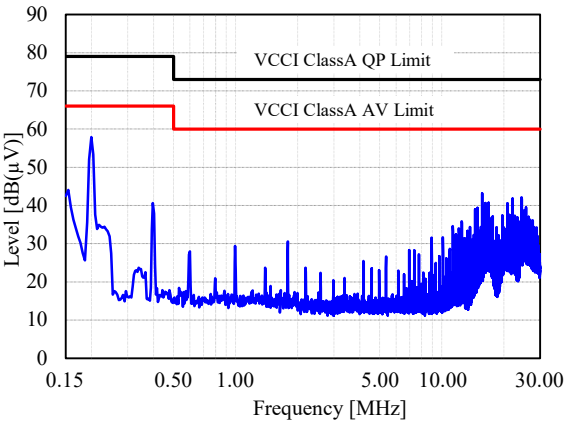


24V

+Vin

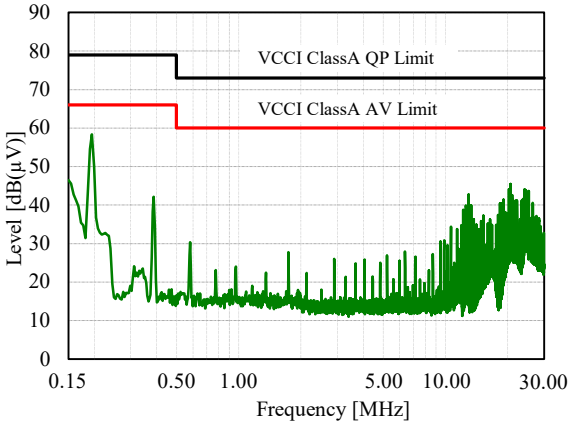


-Vin

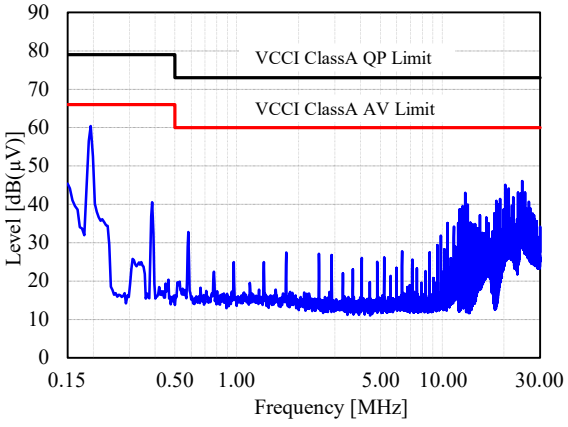


28V

+Vin



-Vin



2.10 EMI特性

Electro-Magnetic Interference characteristics

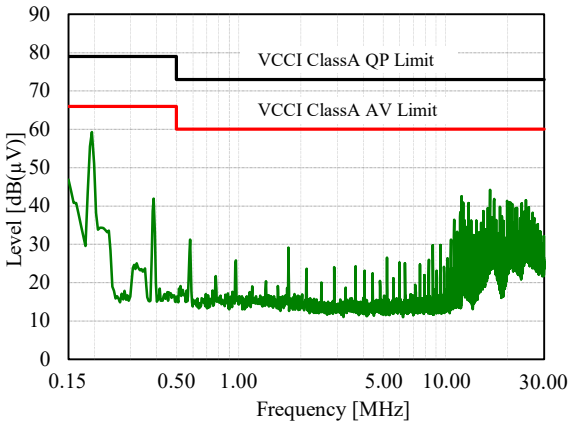
(a) 雑音端子電圧（帰還ノイズ）

Conducted Emission Noise

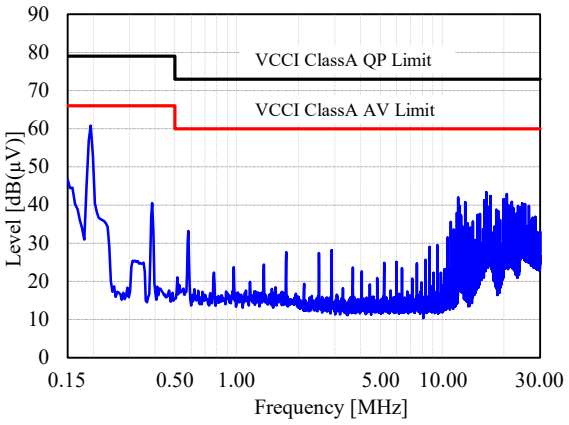
Conditions Vin : 280VDC
Io : 100%
Tbp : 25°C

36V

+Vin

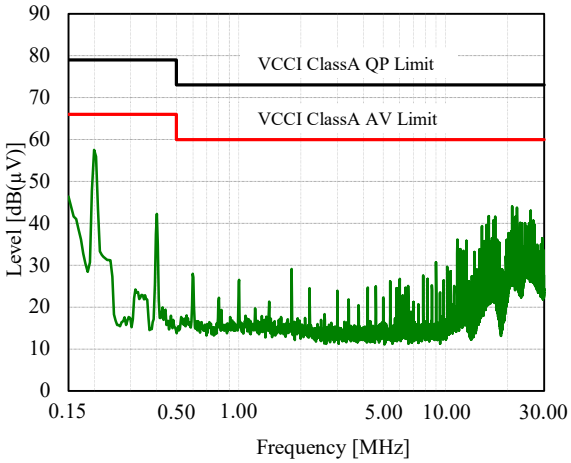


-Vin

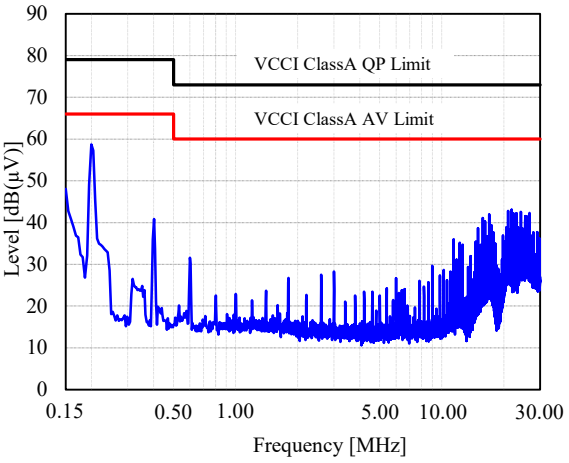


48V

+Vin



-Vin



2.10 EMI特性

Electro-Magnetic Interference characteristics

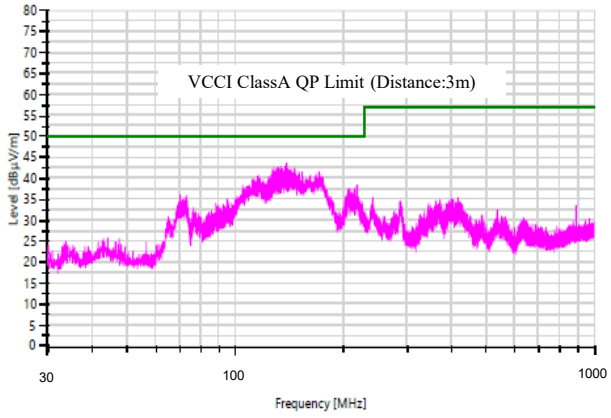
(b) 雑音電界強度(輻射ノイズ)

Radiated Emission Noise

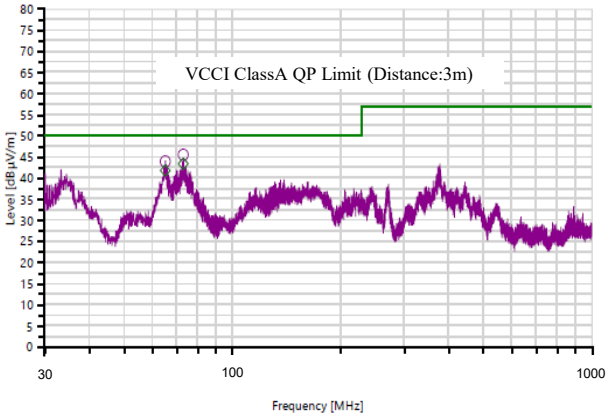
Conditions Vin : 280VDC
Io : 100%
Tbp : 25°C

12V

HORIZONTAL

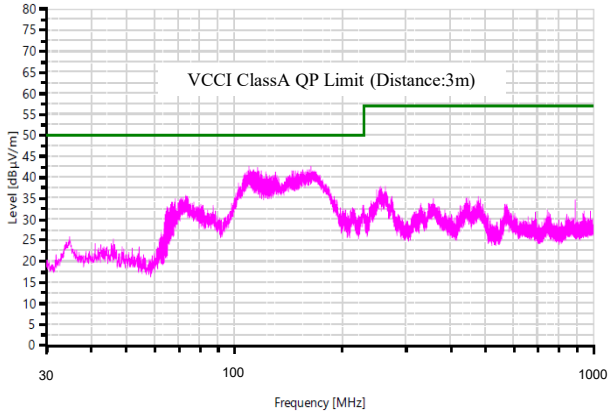


VERTICAL

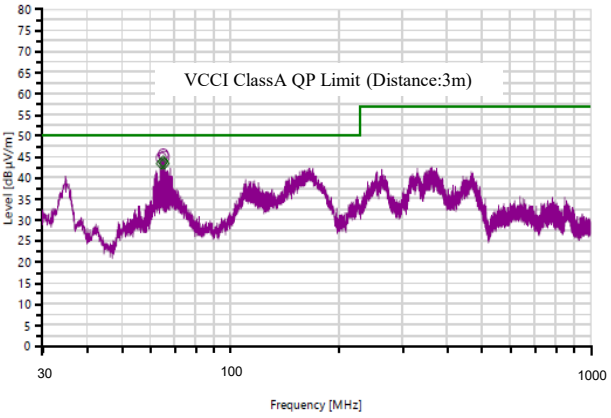


24V

HORIZONTAL

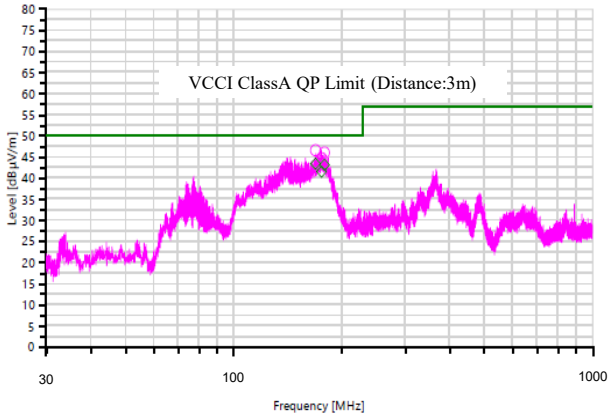


VERTICAL

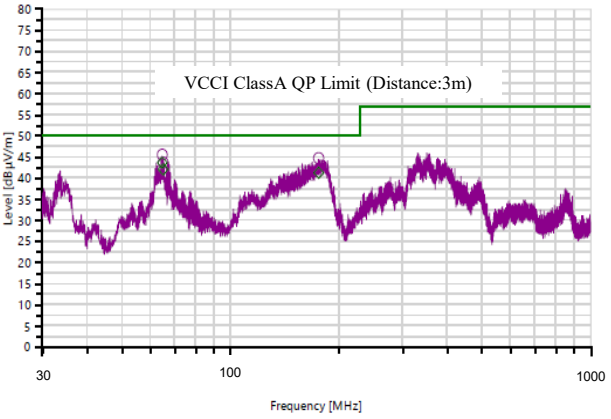


28V

HORIZONTAL



VERTICAL



2.10 EMI特性

Electro-Magnetic Interference characteristics

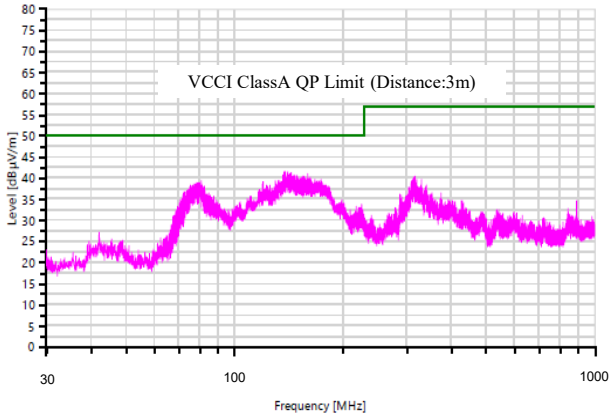
(b) 雑音電界強度(輻射ノイズ)

Radiated Emission Noise

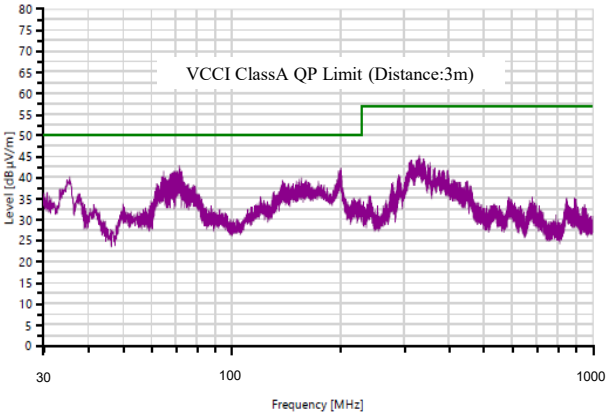
Conditions Vin : 280VDC
Io : 100%
Tbp : 25°C

36V

HORIZONTAL

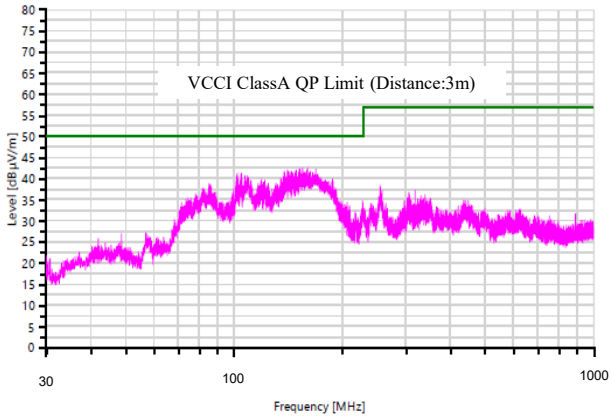


VERTICAL



48V

HORIZONTAL



VERTICAL